



TECOM PROJECT NO. 7-CO-RD8-EPI-003
PUBLICATION NO. USAEPG-FR-1092

THE ENVIRONMENTAL INTERFERENCE EFFECTS MODEL
OF
THE ELECTROMAGNETIC ENVIRONMENTAL TEST FACILITY

VOLUME III

COMPUTER PROGRAM DESCRIPTIONS

PART 2

PRELIMINARY DATA PROCESSING

SEPTEMBER 1980

U.S. ARMY ELECTRONIC PROVING GROUND For: Huachuca, Arizona

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FOREWORD

Bell Technical Operations Textron, Tucson, Arizona, assisted in the preparation of this document under contract DAEA18-76-C-0002.

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SECTION 1 - PROGRAM EDIT 8

1.1 PURPOSE

Program EDIT 8 edits and summarizes deployment data for analysis purposes and assigns certain codes to the equipments for use in later processing.

1.2 PRINCIPAL FUNCTIONS

Program EDIT, shown in figure 1, accepts as input the updated deployment data file prepared for the deployment of interest by program GENANOM 6, the master net type code file, and the required data cards for editing purposes. The program makes necessary additions or changes to the data, makes various data summaries for the analysis, and outputs the edited deployment file and the summary files. The principal functions of program EDIT are summarized as follows:

- a. Assigns an area code to each equipment in the deployment.
- b. Assigns a 6-character net type code to each equipment in the deployment.
- c. Performs a census of the deployment in terms of equipment types, modulation types, number of channels, and assigned frequency ranges. This census is used to extract the required equipment class data from the master equipment class file.
- d. Identifies as crypto equipments all equipments operating in the encrypted mode.
- e. Converts the coordinates of each equipment from the given latitude and longitude to normalized latitude and longitude. The normalizing factors are chosen so that both latitude and longitude become positive values in ten-thousandths of a degree.
- f. Makes a census of posture codes, net control station codes, data set codes, and modulation codes.
- g. Makes a census of unique antennas in the deployment for use in extracting the required antenna data from the master general antenna file.
 - h. Deletes all grounded aircraft records.
- i. Deletes all records deployed at dedicated international emergency frequencies.

1.3 INPUT/OUTPUT DESCRIPTION

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Input to program EDIT consists of three program control cards, two types of data cards, the master net type code file, and the updated deployment data file. Output consists of the edited deployment data file for input to subsequent programs ANAM 9 and EQCLSFF 22; the antenna summary data file for input to program ANTENNA 12; the equipment class summary data file for input to program MISEQIP 16; an operational listing of the contents of the deployment file in easy-reading format; remarks identifying erroneous content or anomalous data; and a listing of all equipment/antenna/modulation code/number of channels combination with frequency range data, plus census type summaries of various parameters.

1.3.1 Input Format

The format of input data, including information necessary to punch input data cards for program EDIT, is given in the following figures and tables:

- a. Program control card, figure 2, page 1-6.
- b. Area classification data card, figure 3, page 1-7.
- c. Normalizing factors for latitude/longitude, figure 4, page 1-8.
- d. Limits card for area matrix 9, figure 5, page 1-9.
- e. Detail data cards for area matrix (9), figure 6, page 1-10.
- f. Updated deployment data file 8, table I, page 1-12.
- g. Master net type code file (15), table II, page 1-20.

1.3.2 Output Format

The format of outputs from program EDIT is given in the following tables:

- a. Edited deployment data file (10), table III, page 1-22.
- b. Antenna summary data file (12), table IV, page 1-28.
- c. Equipment class summary file (11), table V, page 1-30.

1.4 PROCESS DESCRIPTION

- a. Program EDIT is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer. It requires 100000_8 words of central memory for compilation and execution.
- b. The program reads in data cards and a control card. The data cards contain images of variables for use in data comparisons, and the control card identifies the program, security classification, number of files of input data, and parameter values for program execution.

- c. After initializing, the program commences processing of input data as follows:
- (1) The deployment file logical record (edited deployment data file) is output as two 84-character records.
- (2) The content of the edited deployment data file is output in easy-reading format on a file. This is an optional output controlled by entry of the characters "LIST" in columns 66-69 of the EDIT control card.
- (3) The number of receivers and transmitters in each net are tallied and output in a summary listing that identifies the net by number and name. The summary listing also flags nets that have more than 150 transmitters or 150 receivers.
- (4) The frequency is checked for each input record. If the equipment is deployed at one of the four dedicated international emergency frequencies, the equipment is deleted and a new input record is processed. If the frequency changes within the net, a remark is output to call attention to this fact. The frequency is also compared with lowest and highest frequencies encountered for the respective equipment/antenna/modulation code/number of channels combinations and, if appropriate, is inserted into the table as the new lowest or highest frequency.
- (5) The characters used for net control station (NCS) codes, posture codes, data set codes, and modulation codes are checked against a set of standard codes for each parameter entered in the program in data statements. A census is made for each standard code, and an error message is issued for each nonstandard code encountered. Each census also includes a count of the number of records that contain any invalid code.
- (6) An area code is assigned for each equipment. A census of area codes is compiled and output at the end of processing.
- (7) To flag equipments operating as crypto equipments, 500 is added to the contents of the number of channels field. For appropriate equipment class code assignment, any equipment having 500 or more channels is recognized as an encrypted equipment.
- (8) A net type code is assigned to each equipment, based on the net number in the deployment. The set of codes assigned is contained in the master net type code file.
- (9) Summaries are made of unique antenna types and equipment types in the deployment. These summaries are output to files called ANTENA and EQCLAS, respectively, which serve as input to later programs.

1.5 PROGRAM OPERATION

Figure 7, page 1-31, is a listing of all system control cards necessary to execute EDIT for a typical computer run.

1.6 LIMITATIONS

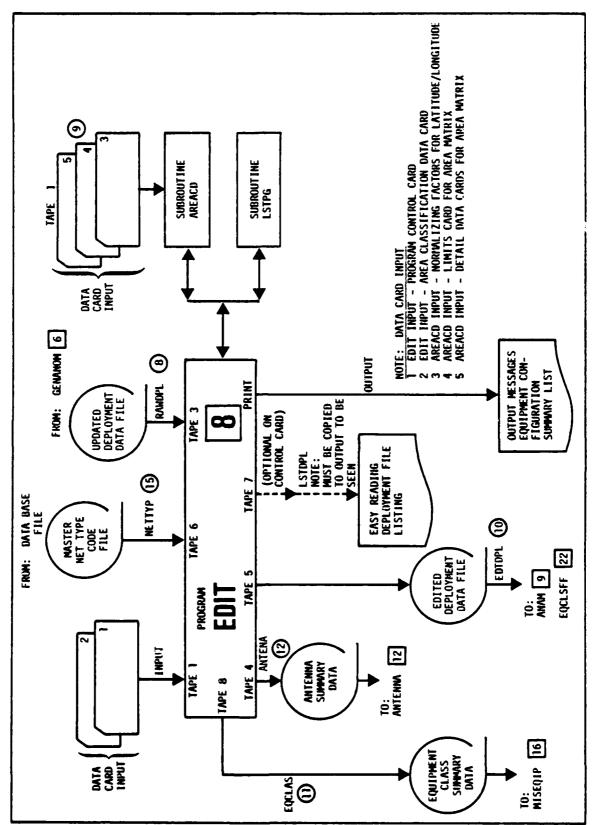
Program EDIT is currently set up to handle a maximum of 400 different combinations of equipment/antenna/r lulation/number of channels codes. If more than 400 different combinations are encountered, the program outputs a listing of the combinations and starts a new accumulation of data. This action will generate a requirement for consolidating the listings.

1.7 RUNNING TIME

Running time is estimated at 1 minute per 1,000 input deployment records.

1.8 COMPUTER PROGRAM LISTING

Table VI, page 1-32, contains a complete computer listing for program EDIT and associated subroutines AREACD and LSTPG, annotated to aid in the understanding of the program functioning. The listings for the program subroutines appear at the end of the table.



•

Figure 1. Program EDIT, functional block diagram.

FIELD NO.	CARD COL	BCD FORMAT	MNEMONIC	FIELD DESCRIPTION
1	1-10	A10	KARDID	EDITbbbbbb. This field must be as specified. If this field is incorrect, the program will abort.
2	11-40	3A10	TITLE	Title to be included in page headings.
د	41-60	2A10	CLASS	Security classification to appear in page headings. Must not be blank.
7	61-65	15	NFILES	Number of input files to be processed.
S	0/2-99	A5	LSTFLAG	This field is used to select the option of listing the deployment tape in easy-reading format by nets. To select the option, enter the characters "LISTb" in this field. This output may be held on tape for later use or selective printout if desired.
v 9	74-75	12	OUTAREA	Numeric code to be assigned to the area outside the defined deployment area. Must be specified. At present, the code 26 (for area 2) is used exclusively.
7	78-80	A3	ICOMSEC	YES = COMSEC code in each deployment record; any other code = COMSEC code flagged in net name (KG, KW, KY).

Figure 2. EDIT input, program control card.

FIELD DESCRIPTION	Must contain AREACLSbbb	Defines the classification for Area #1 \overline{F} = friendly, \overline{E} = enemy, \overline{T} = test. A blank is equivalent to an F .	Same as above for Area #2. This field is repeated once for each area to a maximum of 63 areas.
MNEMONIC	KARDID	AREACLS(1)	AREACLS (2)
BCD FORMAT	A10	R1	R
CARD COL	1-10	11	12
FIELD NO.	7	7	m

Figure 3. EDIT input, area classification data.

	Normalizing factor for latitude in tenthousandths of a degree.
	NRFLON Normalizing factor for longitude in tenthousandths of a degree. the coordinates for the new reference point; i.e., 0, -30.0000)
	2 9-16 I8 (The normalizing factors are

Figure 4. EDIT input, normalizing factors for latitude/longitude.

FIELD DESCRIPTION	Number code identification of area.	Number of data points input to describe area.	each area. N must equal the number of detail data
MNEMONIC	IAREA	z	ata cards fo
BCD FORMAT	12	14	This card precedes detail data cards for each area. to describe area "IAREA."
CARD COL	11-12	13-16	This card precede
FIELD NO.	1	2	Thi cards to

Figure 5. EDIT input, limits card for area matrix (9).

FIELD NO.	CARD COL	BCD FORMAT	MNEMONIC	FIELD DESCRIPTION
r	11-12	12	IAREA	Numeric code of area.
2	13-16	77	×	Sequence number of data point for area "LAREA."
ъ	21-28	18	LAT	Latitude of data point K in ten-thousandths of a degree.
4	31-38	18	TON	Longitude of data point K in ten-thousandths of a degree.
REMARKS	••			

This card must be repeated for as many points as are necessary to describe the perimeter of area "IAREA," and the cards must be in ascending order on "K." The number of cards must be specified in the "N" field on the corresponding header card.

Figure 6. EDIT input, detail data cards for area matrix (9)

File Descrip	tion: Updated	l Deployment Data F	ile (8)
File Name:	RAWDPL	Log	gical Unit:3
Mode/Type:	BCD	Record Length:	84 characters (2 records
Origin:	GENANOM 6		for each equipment)
Used By:	PRINT [3]; BDH!	IST [5]; EWMOD [7];	EDIT 8

TABLE 1. UPDATED DEPLOYMENT DATA FILE (8)

Data Description	Field Size	Field Posttion	Remarks
Record 1			
Security classification	-	7	<pre>0 = unclassified, l = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Net number	10	2-11	A unique 10-digit code assigned to each net. Digits 1-6 indicate the net type number and 7-10 indicate the troop number of the net control station (NCS).
Net sequence number	က	12-14	A 3-digit sequence number of equipments in the net as assigned by the supplier.
Frequency	&	15-22	Assigned frequency in kllz, right-justified.
Net sequence ID number	4	23-26	A 4-digit net sequence ID number assigned in CONVERT [1] to identify each equipment in the deployment: 0001-1999 for transmitters, 2000-7999 for transceivers, and 8000-9999 for receivers.
	7	27-28	Blank
Data set code	1	29	<pre>1 = friendly corps C-E, 2 = friendly TACAIR C-E, 3 = theater army, 4 = friendly EW, 5 = opposing forces C-E, 6 = opposing forces EW, 7 = test system items, 8 = TACAIR EW (unintentional), 9 = intentional interference (friendly army or opposing forces EW), 0 = intentional interference (TACAIR EW).</pre>
	2	30-31	Blank

TABLE I. UPDATED DEPLOYMENT DATA FILE (8) (CONT.)

Field Position Remarks	Geographic quadrant coded as 1, 2, 3, or 4. Indicates quadrant in counterclockwise direction where northeast quadrant is 1, baseline being the prime meridian and the equator.	33 Blank	34-39 Latitude in ten-thousandths of a degree, right-	40-46 Longitude in ten-thousandths of a degree, right-	Subfield 47-50: Height in meters of aircraft above ground. All zeros if aircraft is on the ground. Blank if not aircraft. Subfield 51: Multiplier N, used to multiply aircraft height by 10N; N = 0, 1, 2, 3,	52-54 A 3-digit code assigned to each antenna type.	A 1-character alphabetic code to indicate type of polarization: H = horizontal, V = vertical, A = +45°, D = -45°, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.	56-61 Subfield 56-58; Lower limit of scan.
Field F	-	-	e 	7	ν ₂	3	-	9
Data Description	Geographic quadrant code		Latitude	Longitude	Aircraft height	Antenna code	Antenna polarization	Antenna azimuth angle

TABLE 1. UPDATED DEPLOYMENT DATA FILE (8) (CONT)

Data Description	Field Size	Field Position	Remarks
Antenna azimuth angle (cont)			Subfield 59-61: Upper limit of scan. Expressed in degrees clockwise from true north, not greater than 360°. For stationary antennas, both are equal. Blank for omnidirectional antennas.
Antenna elevation angle	•	62–67	Subfield 62-64: Lower limit of scan. Subfield 65-67: Upper limit of scan. Expressed in degrees upward from horizontal (0°-90° and 270°-360°). Blank for omnidirectional antennas.
Antenna structural height	æ	68-70	Height of antenna in tenths of a meter.
Power output	Ŋ	71-75	Power transmitted in dBm, right-justified.
Protected frequency assignment code	F	76	Alpha character (P) indicating protected frequency assignment; blank if unprotected.
	-	7.7	Blank
Equipment status code	e	78	Code indicating on or off condition. A = listen- ing silence, B = maintenance, C = aircraft grounded, D = spare equipment, E = required special purpose, F = destroyed, G = turned off, II-M = not used, N = space diversity reception, O = not used, P = EW jammer manual targeting, Q = not used, R = EW jammer standby, S = SIGINT/ DF receiver operating, T-V = not used, W = SIGINT/DF receiver in standby or turned off mode, X = EW jammer random targeting, Y = SIGINT/DF receiver random targeting, Z = not used, blank = turned on in operational mode.

TABLE 1. UPDATED DEPLOYMENT DATA FILE (8) (CONT.)

•

Field Position Remarks	79-81 The number of channels assigned for this equipment component. Blank if single-channel. During edit processing at EMETF, digit "5" is written in position 79 if the net is encrypted.	82-84 A 3-character alphanumeric code assigned to this equipment component.		1-2 A 2-character alphanumeric code assigned to this major equipment class.	3-4 A 2-digit code indicating modulation type: F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = 50 = P0, 58 = P9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.	5 A 1-character alphabetic code: R = receiver, X = transmitter, T = transceiver.	6 A 1-character alphabetic code indicating the combat posture of the unit to which the operator is assigned. N = normal, H = heavy, L = light, R = reserve, P = priority, K = nuclear, \$, T, and W = special assignments.
Field Pos	e	E		7	8	1	r-4
Data Description	Number of channels	Component code	Record 2	Major equipment code	Modulation code	R/T code	Posture code

TABLE I. UPDATED DEPLOYMENT DATA FILE (8) (CONT)

Data Description	Field Size	Field Position	Remarks
Operator name	14	7-20	Standard name assigned to the operator, left-justified.
Operator troop number	4	21-24	A 4-digit number indicating the unit to which the operator is assigned.
Net control station code	F	25	A 1-digit code indicating the status of the station. 0 = NCS, 1 = out-station (not NCS).
Organization name	18	26-43	Name of the troop numbered unit to which the operator is assigned.
Vehicle code	m	95-55	A 3-character alphanumeric code assigned to the vehicle.
Radar pulse repetition rate	4	47-50	Subfield 47-49: Pulses per second, right-justified with leading zeros. Subfield 50: Exponent N, used to multiply value in 47-49 by 10 ^N to designate a high pulse rate whose value exceeds 999; N may = 0, 1, 2, 3, 9.
Number of DF targeted	H	51	Count of DF targeted in a net by EWMOD [7], (maximum = 3). Appears only in DF equipment records; blank or zero otherwise.
Special targeting code	1	52	Code inserted by EWMOD [7] during analysis processing; field is blank prior to analysis processing. For X, l = jammer; for R, 4 = intercept receiver; l, 2, 3 = DF.

TABLE I. UPDATED DEPLOYMENT DATA FILE (8) (CONT)

Remarks	Standard name assigned to this net type, left-justified.	Code indicating type of system in which the equipment operates: TF = TACFIRE, TS = tactical operations system (TOS), MM = missile minder, etc.	Code indicating type of COMSEC device associated with the end item-component combination. Blank if unsecured.
Field Position	53-80	81-82	83-84
Field Size	28	2	2
Data Description	Net name	System ID code	COMSEC equipment code

INTENTIONALLY BLANK

File Descri	ription: Master Net Type Code File (15)	
File Name:	NETTYP Logical Unit: 6	
Mode/Type:_	Record Length: 51 characters	
Origin:	Data base file maintained by NTYPGEN 11	
Used By:	NTYPGEN 11 : EDIT 8	
Note: This	de file de compet de consultas audos en columna 1-10	

TABLE II. MASTER NET TYPE CODE FILE (15)

Data Description	Field Size	Field Position	Remarks
Net type number	9	1-6	The first 6 digits of the net number.
Low troop number	4	7-10	The lower boundary of the troop range associated with the net number for this net type code.
	-г	11	Blank
High troop number	4	12-15	The upper boundary of the troop range associated with the net number for this net type code.
Net name	28	16-43	The net name associated with the net number for this net type code.
	2	54-45	Blank
Net type code	9	46-51	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
NOTE: The low and high troo one net type number.	p numbers a	ire omitted	The low and high troop numbers are omitted if given net type code applies to all troops for one net type number.

File Descri	ption: Edited	Deployment Data File (10)
File Name:_	EDTDPL	Logic	al Unit: 5
Mode/Type:_	BCD		characters (2 records
Origin:	EDIT 8	fc	or each equipment)
Used By:	ANAM 9 : E	CLSFF 22	

TABLE III. EDITED DEPLOYMENT DATA FILE (10)

Data Description	Field Size	Field Position	Remarks
Record 1			
Security classification	ન	1	<pre>0 = unclassified, l = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Net number	10	2-11	A unique 10-digit code assigned to each net. Digits 1-6 indicate the net type number and 7-10 indicate the troop number of the net control station (NCS).
Net sequence number	ю	12-14	A 3-digit sequence number of equipments in the net as assigned by the supplier.
Frequency	∞	15-22	Assigned frequency in kHz, right-justified.
Net type code	9	23–28	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
Data set code	-	29	<pre>1 = friendly corps C-E, 2 = friendly TACAIR C-E, 3 = theater army, 4 = friendly EW, 5 = opposing forces C-E, 6 = opposing forces EW, 7 = test system items, 8 = TACAIR EW (unintentional), 9 = intentional interference (friendly army or opposing forces EW), 0 = intentional interference (TACAIR EW).</pre>

TABLE III. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Remarks	A 4-digit net sequence ID number assigned in CONVERT [1] to identify each equipment in the deployment: 0001-1999 for transmitters, 2000-7999 for transceivers, and 8000-9999 for receivers.	Latitude in ten-thousandths of a degree, right-justified. Referenced to new origin input to EDIT (8) to insure that all equipments are in the first (northeast) quadrant.	Longitude in ten-thousandths of a degree, right-justified. Referenced to new origin input to EDIT 8 to insure that all equipments are in the first (northeast) quadrant.	Subfield 47-50: Height (in meters) of aircraft above ground. All zeros if aircraft is on the ground. Blank if not aircraft. Subfield 51: Multiplier N, used to multiply aircraft height by $10^{\rm N}$; N = 0, 1, 2, 3,	A 3-digit code assigned to each antenna type.	A 1-character alphabetic code to indicate type of polarization. H = horizontal, V = vertical, A = +450, D = -450, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.
Field Position	30–33	34-39	40-46	47-51	52-54	55
Field Size	4	9	7	5	æ	н
Data Description	Net sequence ID number	Latitude	Longitude	Aircraft height	Antenna code	Antenna polarization

TABLE III. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Position	Remarks
Antenna azimuth angle	9	56–61	Subfield 56-58: Lower limit of scan. Subfield 59-61: Upper limit of scan. Expressed in degrees clockwise from true north, not greater than 360°. For stationary antennas, both are equal. Blank for omnidirectional antennas.
Antenna elevation angle	9	62-67	Subfield 62-64: Lower limit of scan. Subfield 65-67: Upper limit of scan. Expressed in degrees upward from horizontal (00-900 and 2700-3600). Blank for omnidirectional antennas.
Antenna structural height	ဧ	68-70	Height of antenna in tenths of a meter.
Power output	S	71-75	Power transmitted in dBm, right-justified.
Area code	-	92	A 1-character alphabetic code assigned to designated deployment areas.
	2	77–78	Blank
Number of channels	ĸ	79–81	The number of channels assigned for this equipment component. Blank if single-channel. During EDIT [8], subfield 79 is changed to 5 or greater if the net is encrypted.
Component code	e	82-84	A 3-character alphanumeric code assigned to this equipment component.
Record 2			
Major equipment code	2	1-2	A 2-character alphanumeric code assigned to this

TABLE III. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Posttion	Remarks
Major equipment code (cont)			major equipment class.
Modulation code	2	3-4	A 2-digit code indicating modulation type. 33 = F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = F9, 50 = P0, 58 = P9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.
R/T code	-	۷	A 1-character alphabetic code: R = receiver, T = transceiver, X = transmitter.
Posture code		•	A 1-character alphabetic code indicating the combat posture of the unit to which the operator is assigned. N = normal, H = heavy, L = light, R = reserve, P = priority, K = nuclear, \$, T, and W = special assignments.
Operator name	14	7-20	Standard name assigned to the operator, left-justified.
Operator troop number	4	21-24	A 4-digit number indicating the unit to which the operator is assigned.
Net control station code	П	25	A 1-digit code indicating the status of the station. 0 = NCS, 1 = out-station (not NCS).
Organization name	18	26-43	Name of the troop numbered unit to which the operator is assigned.
Vehicle code	3	94-44	A 3-character alphanumeric code assigned to the

TABLE III. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Position	Remarks
Vehicle code (cont)			vehicle.
Radar pulse repetition rate	4	47–50	Subfield $47-49$: Pulses per second, right-justified with leading zeros. Subfield 50 : Exponent N, used to multiply value in $47-49$ by 10^N to designate a high pulse rate whose value exceeds 999 ; N = 0, 1, 2, 3, 9.
Number of DF targeted	1	51	Count of DF targeted in a net by EWMOD [7] (maximum = 3). Appears only in DF equipment records; blank or zero otherwise.
Special targeting code	ı	52	Code inserted by EWMOD [7] during analysis processing; field is blank prior to analysis processing. For X, 1 = jammer; for R, 4 = intercept receiver; 1, 2, 3, = DF.
Net name	28	53-80	Standard name assigned to this net type, left-justified.
System ID code	2	81-82	Code indicating type of system in which the equipment operates. TF = TACFIRE, TS = tactical operations system (TOS), MM = missile minder, etc.
COMSEC equipment code	7	83–84	Code indicating type of COMSEC device associated with the end item-component combination. Blank if unsecured.

File Descri	ption: Antenna Su	mmary Data File [12]
File Name:_	ANTENA	Logical Unit: 4
Mode/Type:_	BCD	Record Length: 5 characters
Origin:	EDIT 8	
Used By:	ANTENNA 12	

TABLE IV. ANTENNA SUMMARY DATA FILE (12)

Field Size	Field Position	Remarks
7	1 Blank	ınk
3	2-4 A 3-	A 3-digit code assigned to each antenna type.
-	of 1 Of 1 B = char	A 1-character alphabetic code to indicate type of polarization: H = horizontal, V = vertical, A = +450, D = -450, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.

File Descri	iption:_	Equipment	t Class Summary File (11)	_
File Name:	EQCLAS		Logical Unit: 8	_
Mode/Type:_	BCD		Record Length: 28 characters	_
Origin:	EDIT	8]		_
Used By:	MISEQII	2 [16]		

TABLE V. EQUIPMENT CLASS SUMMARY FILE (11)

Data Description	Field Size	Field Position	Remarks
Component code	e .	1–3	A 3-character alphanumeric code assigned to this equipment component.
Major equipment code	2	4-5	A 2-character alphanumeric code assigned to this major equipment class.
Modulation code	7	6-7	A 2-digit code indicating modulation type: 33 = F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = F9, 50 = P0, 58 = P9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.
Number of channels	m	8-10	The number of channels assigned for this equipment component, if applicable. If equipment is encrypted, 500 has been added to number of channels to indicate it is encrypted.
Low frequency	∞	11-18	The lowest frequency (in kHz) at which this equipment is deployed.
High frequency	80	19-26	The highest frequency (in kHz) at which this equipment is deployed.
Equipment function code	2	27-28	A 2-digit code indicating how this equipment functioned in the subject deployment: 01 = transmitter only, 10 = receiver only, 11 = both transmitter and receiver.
······			

LLOYD EDIT/ANAM

EDIT/ANAM control card listing. Figure 7.

TABLE VI. EDIT COMPUTER LISTING

d0/07/28. 15.39.19

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73774 OPT+1

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TABLE VI. EDIT COMPUTER LISTING (CONT)

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TABLE VI. EDIT COMPUTER LISTING (CONT)

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TABLE VI. EDIT COMPUTER LISTING (CONT)

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1-49

SECTION 2 - PROGRAM ANAM 9

2.1 PURPOSE

Program ANAM 9 determines what needed information is missing from an existing file of net matrices (master net value source file) and generates the information necessary to update this file for a particular deployment.

2.2 PRINCIPAL FUNCTIONS

Program ANAM, shown in figure 8, accepts as input the edited deployment data file from program EDIT and the master net value source file. The program checks the edited deployment file against the net value source file and outputs printed information describing nets, operators, and security classifications that are missing or contain errors in the master net value source file. The printed information is furnished to military scientists who determine the necessary update information. The principal functions of program ANAM are as follows:

- a. Compares net type numbers and operator names contained in the edited deployment data file with net type numbers and operator names contained in the master net value source file.
- b. Generates new net matrix records for any net types contained in the edited deployment data file but not in the master net value source file.
- c. Generates new operator name records whenever an operator name is encountered in a normal communications net of the deployment and is not in the net type matrix for that net.
- d. Produces an output listing of all new net matrices and new operator name records resulting from input of the edited deployment data file. These latter records are incomplete becaue of a lack of net and link value information.

2.3 INPUT/OUTPUT DESCRIPTION

Input to program ANAM consists of a program control card, the edited deployment data file, and the master net value source file. Output consists of a listing of incomplete nets and output messages.

2.3.1 Input Format

The format of input data is given in the following figure and tables:

- a. Program control card, figure 9, page 2-5.
- b. Master net value source file (13), table VII, page 2-9.
- c. Edited deployment data file (10), table VIII, page 2-16.

2.3.2 Output Format

All output is a formatted listing. No cards or files are required.

2.4 PROCESS DESCRIPTION

- a. Program ANAM uses 1300008 words of central memory for execution. Its function is to determine missing information or errors in the master net value source file by comparison with the edited deployment file.
- b. An equipment record is read from the edited deployment file. Equipments operating as jammers, intercept receivers, or direction finders (EW) are skipped. The net type code is used to access the appropriate data block(s) in the master net value source file, and the data are read into memory.
- c. The security classification of the edited deployment record is then compared to the security classification of the matching net value source record. If the security classification code of the edited deployment record is higher, the security classification of the net value record is then set equal to the larger value.
- d. The operator name of the edited deployment record is compared to the operator names of the stored records. If the name is found, a new deployment record is read. If the operator name is not found, the necessary deployment data information is added to the stored net value source record. When all edited deployment records of this net type have been processed (a different net type code is encountered), the stored net value source records are written on an intermediate file if new operators were found.
- e. If the net type code of the edited deployment record cannot be found on the net value source file, a new net type is organized and stored from the edited deployment record and the next record is read from the edited deployment file. When all records of this net type have been processed, the stored net is written on the intermediate file. After all records of the edited deployment file have been processed, the intermediate data file is sorted. This file is then printed to provide information for updating the master net value source file.

2.5 PROGRAM OPERATION

Figure 10, page 2-21, is a listing of all system and UPDATE control cards needed to execute ANAM for a typical computer run.

2.6 LIMITATIONS

The program can accept a maximum of 120 different operator names per net type and a maximum of 55 link codes per operator name.

2.7 RUNNING TIME

Running time is estimated at 1 minute of central processing time per 200 nets.

2.8 COMPUTER PROGRAM LISTING

Table IX, page 2-22, contains a complete computer program listing for ANAM and associated subroutines PGS and DSMF, annotated to aid in the understanding of the program functioning.

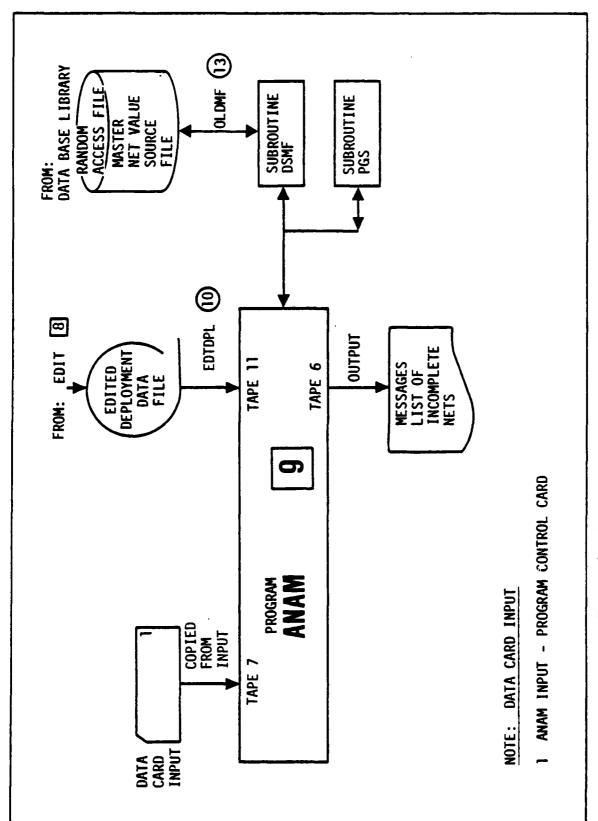


Figure 8. Program ANAM, functional block diagram.

_							
	FIELD DESCRIPTION	ANAMbbbbbb must be entered in this field.	Title to be output as part of page headings.	Security classification to appear in page headings. Cannot be blank.	The number of files of input deployment data. If blank, 1 is assumed.	Enter logical file name of random access master file to be read (usually OLDMF).	
	MNEMONIC	KARDID	TITLE	ICLASS	NFILES	INFILE	
	BCD FORMAT	A10	3A10	2A10	15	A5	
	CARD COL	1-10	11-40	41-60	61-65	71–75	
	FIELD NO.	1	2	e.	4	5	

Figure 9. ANAM input, program control card,

INTENTIONALLY BLANK

File Descri	ption: Net Value Source File (13)
File Name:_	OLDMF Logical Unit: OLDMF
Mode/Type:_	BCD Record Length: 80 characters
Origin:	Previous run of UPDATMF 10
Used By:	ANAM 9; UPDATMF 10; LINK 23
-	

Notes:

1. The net value source file is a name-accessible random file. The net type code name, with a sequential block index appended, is used to access a data block. Every net type code requires a set of general net type data called the header record. In addition, each normal communications net type code (category = 0) requires a set of data called an operator record for each unique operator. Both of these record types are 80 characters in length. The records are packed 8 to a block and, depending upon the number of operators in the net type, data for the net type code may consist of 1 to 15 data blocks, each of which contains 640 characters. A partially filled data block is padded with blanks.

The general record/block format is as follows:

		BLOCK 1	
Record	1	Header data record	
	2	Data record-operator	1
	3	Data record-operator	_ <u>2</u> _
	4	Data record-operator	3
	5	Data record-operator	4
	6	Data record-operator	5
	7	Data record-operator	6
	8	Data record-operator	7

		E	BLOCK 2	
Record	1	Data	record-operator	8
	2	Data	record-operator	9_
	3	Data	record-operator	10
	4	Data	record-operator	11
	5		record-operator	
	6	Data	record-operator	13
	7		record-operator	
	8	Data	record-operator	15

Block 2 is repeated, if necessary, to contain all operators, to a total of 15 blocks. Actually, most of the normal communications

Net Value Source File (13) (Cont)

net types require no more than one or two blocks. All other kinds of net type codes are limited to one block that contains only the header data record and enough blanks to fill the block.

2. When updating the random access net value source file, it is necessary to access each record, update as indicated, then write the record on the new random access net value source file. In order to do this, a sequential index file is maintained for each random access version created. The logical file name of the index file for input is OLDNXD (internal program file name is TAPE2) and NEWNDX (internal program file name is TAPE3) for output. Both these files are used only in program UPDATMF. The format of the sequential index file is given at the end of the format for the net value source file in table VII.

TABLE VII. NET VALUE SOURCE FILE (13)

Data Description	Field Size	Field Posttion	Remarks
Header Data Record			
Net type code	9	1-6	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
Number of operators	4	7–10	Number of operators plus l in this net type category; right-justified.
Record identifier	1	11	Contains the digit 0 to identify a net type header record.
Net value	3	12-14	A 3-digit number indicating the relative tactical importance of the net type (range = .001990).
Net duty cycles (range = .0199)	2	15-16	A 2-digit number assigned as the net duty cycle for normal combat posture.
		17-18	A 2-digit number assigned as the net duty cycle for <u>light</u> combat posture.
	7	19-20	A 2-digit number assigned as the net duty cycle for heavy combat posture.
	2	21-22	A 2-digit number assigned as the net duty cycle for reserve combat posture.

TABLE VII. NET VALUE SOURCE FILE (13) (CONT)

Data Description	Field Size	Field Posttion	Remarks
Net duty cycles (cont)	7	23-24	A 2-digit number assigned as the net duty cycle for priority combat posture.
	7	25–26	A 2-digit number assigned as the net duty cycle for nuclear delivery combat posture.
	2	27-28	Spare for special assignment.
	2	29–30	Spare for special assignment.
	2	31-32	A 2-digit number assigned as the net duty cycle for nuclear warning combat posture.
Minimum cull distance	4	33-36	Minimum length, in meters, for links to be formed. If no cull is to be made on minimum link length, this field contains 0000. Minimum cull distance must be less than maximum cull distance.
Maximum cull distance	en e	37–39	Maximum length, in kilometers, for links to be formed. If no cull is to be made on maximum link length, this field contains three blanks. Maximum cull distance must be greater than minimum cull distance.
Category code	1	40	A 1-digit code indicating the category of the net type as follows: 0 = normal communications net with different link values for different pairs of operators, 1 = radio relay or data link net. Each transmitter is linked with every receiver (normally, only one of each in a net) with link values equal to the net value multiplied by a weight factor associated with the posture

TABLE VII. NET VALUE SOURCE FILE (13) (CONT)

Pield Field Bescription Size Position	code code of the transmitter: 2 = warning net, or other net where all links have the same value and transmitters share time in the net equally, 3 = radar net, where transmitters are linked only with their own receivers and no culling on distance is made, and 4 = obsolete nets, which are bypassed in linking.	28 41-68 A 28-character (or smaller) alphanumeric name assigned to each net type; left-justified.	69-72 Blank	ence factor 3 73-75 A 3-digit number indicating the intelligence value of the net to opposing forces (range = 00.1-99.9).	classification 1 76 A 1-digit code indicating the highest security classification ever assigned in prior deployments to equipments in this net type: 0 = unclassified, 1 = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.	service 3 77-79 A 3-digit code indicating class and subclass of service. The first digit (position 77) is assigned to class of service: 1 = area/system, 2 = command, 3 = traffic, 4 = information, 5 = survey, 6 = logistics, 7 = intelligence, 8 = fire support, 9 = noncommunications, 0 =
Data Description	Category code (cont)	Net name		Intelligence factor	Security classification	Class of service

TABLE VII. NET VALUE SOURCE FILE (13) (CONT)

)
Data Description	Fleld Size	Field Posttion	Remarks
Class of service (cont)			and third digits (positions 78-79) are assigned to subclasses of service that indicate the type of net within each major class of service. (This field is not presently used and may not be up-to-date.)
	-	80	Blank
Operator Data Record			
Net type code	9	1-6	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
Record identifier	-	7	Contains the digit 1 to identify an operator record.
Operator name	14	8-21	Standard alphanumeric name assigned to each operator; left-justified. Contains 1 to 14 characters, with characters 13 and 14 reserved to differentiate between 11ke operators (1.e., pilot 1 and pilot 2). In this file, characters 13 and 14 are blank, since such distinction is not desired.
Matrix line number	2	22–23	A 2-digit sequential line number assigned to each operator when added to the matrix. Two operators

TABLE VII. NET VALUE SOURCE FILE (13) (CONT)

Data Description	Field	Field	Remarks
Matrix line number (cont)			who have the same function may be assigned the same line number.
Link factor code	г	24-78	A 1-digit code (0 to 9) indicating the relative importance of a link between two distinct operators. A zero prohibits the operators from linking under any conditions. Data must be entered for each operator combination between the operator being treated and all prior operators in the matrix. The number of link factor codes must equal the matrix line number for the operator.
	2	79–80	Blank
Sequential Index File (used only by program UPDATMF)	l d only by pr	ogram UPDA1	MF)
	3	1-3	Blank
Net type code	9	6-7	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
Block sequence flag	1	10	A = block 1, B = block 2,, N = block 14, and 0 = block 15. Each net type code may have as many as 15 blocks of data.
NOTE: This data record i	s repeated	for each da	is repeated for <u>each</u> data block entry in the random access net

INTENTIONALLY BLANK

File Descri	ption: Edit	ed Deployment I	Data File	(10)
File Name:_	EDTDPL		Log	ical Unit: 11
Mode/Type:_	BCD	Record	i Length:_	84 characters (2 records
Origin:	EDIT 8			for each equipment)
Used By:	ANAM 9;	EQCLSFF 22		

TABLE VIII. EDITED DEPLOYMENT DATA FILE (10)

Remarks		0 = unclassified, 1 = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.	A unique 10-digit code assigned to each net. Digits 1-6 indicate the net type number and 7-10 indicate the troop number of the net control station (NCS).	A 3-digit sequence number of equipments in the net as assigned by the supplier.	Assigned frequency in kHz, right-justified.	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.	1 = friendly corps C-E, 2 = friendly TACAIR C-E, 3 = theater army, 4 = friendly EW, 5 = opposing forces C-E, 6 = opposing forces EW, 7 = test system items, 8 = TACAIR EW (unintentional), 9 = intentional interference (friendly army or opposing forces EW), 0 = intentional interference (TACAIR EW).
Field Position		-	2-11	12-14	15-22	23-28	53
Field Size			10	ю	&	9	
Data Description	Record 1	Security classification	Net number	Net sequence number	Frequency	Net type code	Data set code

TABLE VIII. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Position	Remarks
Net sequence ID number	4	30-33	A 4-digit net sequence ID number assigned in CONVERT 1 to identify each equipment in the deployment: 0001-1999 for transmitters, 2000-7999 for transceivers, and 8000-9999 for receivers.
Latitude	•	34-39	Latitude in ten-thousandths of a degree, right- justified. Referenced to new origin input to EDIT (8) to insure that all equipments are in the first (northeast) quadrant.
Longitude	7	99-09	Longitude in ten-thousandths of a degree, right-justified. Referenced to new origin input to EDIT (8) to insure that all equipments are in the first (northeast) quadrant.
Aircraft height	S	47-51	Subfield 47-50: Height (in meters) of aircraft above ground. All zeros if aircraft is on the ground. Blank if not aircraft. Subfield 51: Multiplier N, used to multiply aircraft height by $10^{\rm N}$; N = 0, 1, 2, 3,
Antenna code	n	52-54	A 3-digit code assigned to each antenna type.
Antenna polarization	1	55	A 1-character alphabetic code to indicate type of polarization. H = horizontal, V = vertical, A = 445°, D = -45°, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.

TABLE VIII. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Position	Remarks
Antenna azimuth angle	ø	56-61	Subfield 56-58: Lower limit of scan. Subfield 59-61: Upper limit of scan. Expressed in degrees clockwise from true north, not greater than 360°. For stationary antennas, both are equal. Blank for omnidirectional antennas.
Antenna elevation angle	9	62-67	Subfield 62-64: Lower limit of scan. Subfield 65-67: Upper limit of scan. Expressed in degrees upward from horizontal (00-900 and 2700-3600). Blank for omnidirectional antennas.
Antenna structural height	æ	02-89	Height of antenna in tenths of a meter.
Power output	S	71-75	Power transmitted in dBm, right-justified.
Area code	-	92	A 1-character alphabetic code assigned to designated deployment areas.
-	2	77-78	Blank
Number of channels	m	79–81	The number of channels assigned for this equipment component. Blank if single-channel. During EDIT [8], subfield 79 is changed to 5 or greater if the net is encrypted.
Component code	e	82-84	A 3-character alphanumeric code assigned to this equipment component.
Record 2			
Major equipment code	2	1-2	A 2-character alphanumeric code assigned to this

TABLE VIII. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Position	Remarks
Major equipment code (cont)			major equipment class.
Modulation code	2	3-4	A 2-digit code indicating modulation type. 33 = F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = F9, 50 = P0, 58 = P9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.
R/T code	-	'	A 1-character alphabetic code: R = receiver, T = transceiver, X = transmitter.
Posture code	-1	9	A 1-character alphabetic code indicating the combat posture of the unit to which the operator is assigned. N = normal, H = heavy, L = light, R = reserve, P = priority, K = nuclear, \$, T, and W = special assignments.
Operator name	14	7–20	Standard name assigned to the operator, left- justified.
Operator troop number	4	21-24	A 4-digit number indicating the unit to which the operator is assigned.
Net control station code	-	25	A 1-digit code indicating the status of the station. 0 = NCS, 1 = out-station (not NCS).
Organization name	18	26-43	Name of the troop numbered unit to which the operator is assigned.
Vehicle code	3	94-44	A 3-character alphanumeric code assigned to the

TABLE VIII. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Position	Remarks
Vehicle code (cont)	_		vehicle.
Radar pulse repetition rate	4	47–50	Subfield 47-49: Pulses per second, right-justified with leading zeros. Subfield 50: Exponent N, used to multiply value in 47-49 by 10 to designate a high pulse rate whose value exceeds 999; N = 0, 1, 2, 3, 9.
Number of DF targeted	F	51	Count of DF targeted in a net by EWMOD [7] (maximum = 3), Appears only in DF equipment records; blank or zero otherwise.
Special targeting code		52	Code inserted by EWMOD [7] during analysis processing; field is blank prior to analysis processing. For X, 1 = jammer; for R, 4 = intercept receiver; 1, 2, 3, = DF.
Net name	28	53-80	Standard name assigned to this net type, left-justified.
System ID code	2	81-82	Code indicating type of system in which the equipment operates. TF = TACFIRE, TS = tactical operations system (TOS), MM = missile minder, etc.
COMSEC equipment code	2	83-84	Code indicating type of COMSEC device associated with the end item-component combination. Blank if unsecured.

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TABLE IX. ANAM COMPUTER LISTING

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151 IF (10P3) EL-1-L 150 IF (10P3) EL-1-DPA (111) AND . UP., EQ. OPB (111) GOTO 160 0000 WRITE (16.4001) JHG 17.0 DP., IRRT 0001 FORMATION AURE THAN 119 UPERATORS FOR *. A6. ZK. 100 IF (10F1 * 1) 11 F (10F1 * 1) 12 MUD * 1 J * 1.6 13 MUD * 1 J * 1.6 14 MUD * 1 J * 1.6 15 SET FLAC SHOWING WHETHER OPERATOR IS X. R. 16 IF (11NE * 1.6) AURITICL D- RETICL D- REAL * 1.6 17 ME * 1.6 18 MEL * 1.6 18 MEL * 1.6 19 MEL * 1.6 10 IS 3 11 ME * 1.6 12 MEL * 1.6 13 MEL * 1.6 14 MEL * 1.6 15 MEL * 1.6 16 METHER * 1.6 17 ME * 1.6 18 METHER * 1.6 19 METHER * 1.6 10 METHER * 1.6 10 METHER * 1.6 11 METHER * 1.6 11 METHER * 1.6 11 METHER * 1.6 12 METHER * 1.6 13 METHER * 1.6 14 METHER * 1.6 15 METHER * 1.6 16 METHER * 1.6 17 METHER * 1.6 18 METHER * 1.6 19 METHER * 1.6 10 METHER * 1.6 10 METHER * 1.6 10 METHER * 1.6 10 METHER * 1.6 11 METHER * 1.6 11 METHER * 1.6 12 METHER * 1.6 13 METHER * 1.6 14 METHER * 1.6 15 METHER * 1.6 16 METHER * 1.6 17 METHER * 1.6 18 METHER * 1.6 19 METHER * 1.6 10 METHER					
151				****	
F (L.E.119) GOTO 13500 MODO WALE (14001) JNET, OP3, OP4, INRT MODO WALE (1401) 19 UPERATORS FOR +,A6,Z&r, PC! - PC + 1 F (1 + C + 1) MUUP- DAA(1-) DA3 DAA(1-) DAA(1-) DAA(1-)		1. AND . 194 . 60 . 69 . 641 . 116.0 . 16.0		E 4 2 4	0 4
0000 WRITE [6.40001) JNGT, 0P3, OP4.1NRT 1		15.15.100		ANA	9
10001 FORMATION HURE THAN 119 UPERATORS FOR +,A6,2%; 1001 FORMATION GALL PGS GO 10 153 AUD NEA OPERATOR IO THIS NETTYPE SOUN L-1.1-1.1 DREAD-1.200 DPATILL-0.0P3 OPATILL-0.0P3 OPATILL-0		JACT, OP3, OP4, INRT		ANA	2
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16 (1PCI.GI.53) CALL PGS GD 10 153 AUD NEW DEFRATOR TO THIS NETTYPE 100 (1-11-11) 100 (1-11-11) 100 (1-11-10) 100 (1-11-00) 100	IPCI - IPCI + 1			ANA	12
6.0 10 153 AUD NE 4 OPERATOR 10 FMIS NEITYPE 5.100 [1.1-1.1] 0P4(1)-0P3 0P4(1)-0P3 100 1 J-1.6 1 AD(1.4)-0-1.6P4 11(11)-38200 11(11)-1.5P2 11(11)-1.5P2 11(11)-1.5P2 11(11)-1.5P3 11(11)	1F (1PC1.61.53)	CALL PGS		ANA	73
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CALL SHELLE (SOURTIES) CALL SHELLE (SOURTIES) CALL SHELLE (AUTOUT & ABINARY & 7.4REWIND &) CALL SHELLE (AUTOUT & ABINARY & 7.4REWIND &) CALL SHALVILLE (AUTOUT & AUTOUT & AUTOUT & AUTOPHE &) ISP-110 CALL PSS CALL PSS CALL PSS ISP-110 INTPREB	, (MEN METEVORS AND	7 I W 1 W C C	
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CALL SHELLEGOURDIA ABINATA, 7, PREAINDA) CALL SHELLEGOURD FROM SURFED FILE, ITYPE FLAGS TYPE OF DATA COMENTS IN HEADER FOR EXISTING NETTYPE 2. UPERATUR FUR EXISTING NETTYPE 3. NEA UPERATUR FUR EXISTING NETTYPE 4. 16 ADERATUR FUR HEW NETTYPE 5. UPERATUR FUR HEW NETTYPE COMENTS IN CO			4444	
CALL SMALVILLIAM FINANCY CALL SMALUS CALL SMALUS CALL SMALVILLA CALL SMALVILLA CALL SMALVILLA CALL SMALVILLA CALL PUS CALL SMALVILLA CALL COMENTS COMENTS COMENTS CALL PUBLICATION FOR EXISTING NETTIPE COMENTS CO				
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ISP-140 ISP-140 INR-0 INR-0			200271	7 00 0
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IXRAO IXRAO READ 1 MECURD FROM SURTED FILE. ITYPE FLAGS TYPE OF DATA COMENTS 1 MEAUER FUR EXISTING NETTYPE 2 UPERATUR FOR EXISTING NETTYPE 3 MEA UPERATUR FOR EXISTING NETTYPE 4 MEADER FOR NEW NETTYPE COMENTS 5 DERATUR FUR NEW NETTYPE COMENTS COMENTS COMENTS COMENTS		0-1-40	9114717	151
READ I RECURD FROM SURTED FILE. ITYPE FLAGS TYPE OF DATA COMENTS 1. HEADER FUR EXISTING NETTYPE 2. DPERATUR FOR EXISTING NETTYPE 3. NEW OPERATOR FOR EXISTING NETTYPE 4. TEADER FOR NEW NETTYPE 5. JPERATUR FUR NEW NETTYPE COMENTS COMENTS COMENTS	•		1 1 1 1 1 1 1	F (
KEAD I MECURO SJATED FILE. LIPPE FLAGS IPPE OF DAIA CORENTS 1 " MEADER FUR EXISTING NETTYPE 2 " DPERATUR FOR EXISTING NETTYPE 3 " NEW UPERATOR FOR EXISTING NETTYPE 4 " LEADER FOR NEW NETTYPE 5 " JPERATUR FUR MEW NETTYPE COMENTS 5 " JPERATUR FUR MEW NETTYPE	۰		COMENTS	191
1 HEADER FUR EXISTING NETTYPE COMENTS 3 NEW UPERATOR FUR EXISTING NETTYPE 4 TEADER FUR NEW NETTYPE 5 UPERATUR FUR NEW NETTYPE COMENTS 5 UPERATUR FUR NEW NETTYPE CONGNIS	. ن	LIYPE FLAGS IYPE UF	CONTRIC	207
2. UPERATUR FUR EXISTING NETTIPE 5. NEW UPERATUR FUR HEISTING NETTIPE 6. IGADER FUR NEW NETTIPE 6. UPERATUR FUR NEW NETTIPE CONENTS 5. UPERATUR FUR NEW NETTIPE	۰		CONFRI	9
3* NEJ UPERATOR FOR EXISTING NETTIPE 4* IEADER FOR NEW NETTIPE 5* JPERATOR FOR NEW NEITIPE CONENTS	۰		COMENIS	067
4. IEADER FÜR NEW NETTYPE 5. JPERALIK FÜR NEW NEILYPE CONEMIS	٠,	3. NEW OFERATOR FOR ERISTING SETTING	COMENIA	
5. JPERALIK FUR NEW MELITPE	۰	4. TEADER FOR NEW NETTYPE	COMENIS	761
	J	ST CORRACTE FOR MED MELLINE	2 1 2 1 2 1	

PAGE

	PRDG4AM ANAM	73/74 OPT-1 FIN	86448	30/07/2d. 15.34.34	15.39.34
345	2010) READ(7)1DATA, LIYPE IF (EDF(7)12,005, 2023)) GO 10(2021, 2022, 2023, 2024, 2025), IIYPE		ALYPAED FINANA RIYPAED	142
	.	PRINT HEADER FUR EXISTING NETTYPE AFTER PRINTING XR USE Last Dperatur, if necessary	G XR USE FOR	CONENTS	961 198 198
601	2021	NUP -NUP -HLK2 FilkR.Eq.O.GU TU 20210 PKINE 2023215N		NIYPAFE	24 24 25 25 25
355	20210				1140
360	000	PRINT OPERATOR FOR EXISTING NETTYPE		COMENTS	200 200 201
Şof	32022	PRINT 32.1Dafa(1).fDafa(6).fDafa(4).fDafa(5).fDafa(3). 1 (1Dafa(1).f1.2) 2 furmaticz.aso.ele.r2.alo.as.r2.2alo.as) 1PCT-1PC[1.1] 1F(1PC f.GE.25)Call PGS ud TO 2010	3)	NITYPAFE NITYPAFE NITYPAFE NITYPAFE	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
370	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NEJ UPENATURS IN EXISTING NETTYPE. IGNORE DUPLICATE RECORDS Für same üperatür. Print openator record after printing XR use for last operator	ICATE RECORDS PRINTING XR	COMENTS COMENTS COMENTS	202 204 205 205
375	2023		-		25 20 20 20 20 20 20 20 20 20 20 20 20 20
383	?	NODZ=IUATA(5) NODZ=IUATA(5) FFIFCT.GE.>4)CALL PGS PRINT 19.10ATA(1).1DATA(5) FORMAT(2x.Ao.*) *Alo.A4,79x,*NEW OPERATOR*) IPCT-IPCT-1			5 2 5 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
345	20231	SET UP AR USE FOR 4EW OPERATOR 1		CONENTS CONENTS CONELTS ATTENTS ATTENTS	209 209 25 166
0	, .	PAINT HEADER FIJR NEJ NETTYPE AFTER PRINTING KR Operator, if necessary	USE FOR LAST	COMENTS COMENTS COMENTS	212 212 213
315	2024	+ NOP1-N JP2-ALK2 IF (1xR-ED) & U 20240 PRINT 20232-1xA IXR-0 CONTINUE PRINT 72-15P-(DATA(1)-10Afa(3)-((DATA(1)-1-6)10)	- - - - - - - -	N N N N N N N N N N N N N N N N N N N	169 27 27 29 29 169 169

TABLE IX. ANAM COMPUTER LISTING (CONT)

PAGE

.

	PRUGRAM ANAM	73774	UP T • 1		FIN 4.8+498	865		80/07/24. 15.34.34	15.34.34	
00		IPCT+IPCT+2 IF(IPCT,GE,54)CALL PGS ISP+BLK2	61CALL P65					STROPING STROPING	170	
403	JJJJ	GO TO 2010 NEW OPERATOR OPERATOR. P	IN NEW NET. Rint Operator	IGNURE DUPLICATE MECORDS FOR Recurd after printing XR use	DUPLICATE NECORDS AFTER PRINTING XR		SAMÉ FOR	COMENTS COMENTS COMENTS COMENTS COMENTS	215 215 216 216 217	
01,	5025	Ų — — -		1.Eq.NOP2160	10 20251			CONENIS LSMAR79 NIYPAFB NIYPAFI	218 174 30	
9		INR.O NOPI-LUAFA(6) NGP2-LOATA(5) IF(IPCT-GE-SECALL PGS	118.0 118.0 NOP1=1D414(3) NOP2=1D414(3) NOP2=1D414(3) NOP2=1D414(3)						182	
2	20252			T08				NIYPAFI NIYPAFI COMENIS COMENIS	35 184 220 220	
\$23	20251	IXR.	IXW.OK.IVATA16) U 2010 COME HERE AT EUF OM SORTED DATA FILE AND TERMINATE JOB	DATA FILE AN	D TERMINATE	900		NIYPAFI NIYPAFI NIYPAFI COMENIS	223 223 223	
9	2005	IF (IKR. NC.) IFLAG*3 CALL PGS PRINT BOOP FORMAT(*)	IF(IKR.Nc.J)PRINT 20232,IKR 1FLAG=3 CALL PGS PRINT 800,FITLE,INCF FORMAT(*) END OF ANAM PROCESSING FOR! *,3A10,110,* DEPLOYMENT REC ENDS READ.*)	NG FOR: 4,3A	10,110,4 DE	PLOYNE	7 L	ANAH HERE		

TABLE IX. ANAM COMPUTER LISTING (CONT)

SUBROUTINE PGS	\$	13/74	1-140	82/170708	80/07/28. 15.39.34	PAGE
	мо -	UBMINTING PGS ORMON/ANAMCUM NIEGER IIILE	UDRIBUTINE PGS OMNON/ANAMCUM/16PG, IPCT, IFLAG, ICLASS(2), TITLE(3) Nieger IIILe	9 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	~~~	
<i>ر</i> ب	~	FIIFLAG.EJ.116010 5	1)6010 5	PGS PGS PANIE	v 6 3	
•	•	RITE(6.6)14 OKMAT(11.02 UKMAT(11.02)	RRIE(6.6)103,111LE.ICLASS,16PG OKHAT(IL.*ANAM JUFPUT FOR: *.3ALO.20X.2ALO.20X.*PAGE*.16) INMAE(IL.*ANAM DUFPUT FOR: *.3ALO.24X.2ALO.28X.*PAGE*.16//)		6 0 °	
. 2	·	FIIFLAG.EJ.3) METURN	B) AETUAN		922	
5	3 g ü	1056 - 1056 - 1 1961 - 2 Riie(6,4)149,711 Eturn No		2	22.22.29	

TABLE IX. ANAM COMPUTER LISTING (CONT)

DSMF STUMMGE ALLUCATION.	<u>.</u>					COMPASS	COMPASS 3.6-490.	40/01/24.	KO/U7/24. 15.39.43.	PAGE
400AL SS		LENSTH		4 I NA 4 Y	SINALY COMIRCL CARDS.	÷				
0 12218	0 7	57221		LUENT	OSMF					
			BLOCKS	Trpe	ADDRESS	LENGIH				
			PROCRAM* INDAFA	LUCAL	00	57221 101				
			JUIDAIA	CUMMON	•	101				
			ENTRY POINTS.	15.						
			DSMF	~	.22	·u	12•			
			EXTERNAL SYNBOLS.	YNBOLS.						
			LOAR	IORV	242					

OSMF

				COMPASS 3.6-498. 80/07/28. 15.39.43.	PAGE	~
			LDENT	FE.25	OSMF	~ -
	. •	ROUTE	ROUTINE DSMF	DEFINES AND ACCESSES AN OPERATING SYSTEM	FINDSAF	- ~
				KANDOM ACCESS FILE WITH A NAME INDEX. SEE NOS/BE REF.	FINDSAF	m .
	~ `			MAN PP. 3-11 1G 3-12 FOR ACME INTO.	TEXONE	• •
					FINDSNE	ه ۱
				CALL DSMFIARGI, ARG2, ARG3, ARG4)	FINDSMF	~
	•			APENDENTS OF CALL FRUM ARE	FINDSH	0
				ARGI- MRG OF OPEN FILE	FINDSME	0
	•				FTNOSMF	=
	•			2- READ	FINDSAF	21
	-			OF THE CHANGE AND ADDRESS OF THE CHANGE OF T	FINOSAF	£ 2
				BE READ/URITED	FINDSAF	12
	•			ENTER A DUMNY ARG WHEN MRQ.O	FINDSMF	91
	•			ARG3- IF MRG.O, DEFINES LFN DF FILE	FINDSHE	17
				TO BE UPENED FOR READING	FINDSHE	0 :
				IF MRG-I OR 2, AN OCIAL INDEX	FINDSAF	6 6
				COPTIONAL) ARG4- IF MRO-1 OR 2, NOT USED.	FINDSH	212
	•			•	FINDSHF	22
	•			TO BE WRITTEN	FINDSHE	23
		A CALL	# ± 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TITE NRO-4 LIKE SO	FINDSHE	5,5
			PRU-4		FINONIA	Ç ;
	•		באנו מז	CALL DON'THOUSAN	FINDSAF	27
	-	RETURN	S IN PRU	. THE ND 1 - REL POS OF 1ST PRU -1	FINOSHE	92
		RETURN	S IN ING	RETURNS IN INDEX THE INDEX OF THE 1ST PRU.	FINDSMF	54
		THIS A	KO SAOTI	U URDER WITH -		2
				CALL DSMF(2, INDEX, INERR) \$ CALL DSMF(2,0, IMERR)	THYONE	1 6
0	0423150655555000022		460	42/0HDSMF.18/22B	FINDSMF	33
•				DOST	DSAF	. ~
					DSMF	•
-	11160611140500000003	INFILE	AF ILEB	ZINK, 65, (WSA-ZUNK, 65), (IND-TABK, 12005), EPR, (DWN-, E)	FIXERR	-
2 :	17252406111405000003	JUTF 11.E	RFILEB	LUNK, 65, [MSA=ZANK, 65], [INO=[ARY, 12005]	DECFIL	~ ~
4			USE	/ INDATA/	DSMF	- œ
0	101	NU.2	8 2 8	99	0ECF 11	_
•	3	77.4	USE 1	/0JT0ATA/	0546	91
•		۲	USE		DSMF	12
23	14600			90	FIXERR	~
	5160000103 +				FIXERR	m
;	01119			Al PUT ADDR OF ARG LIST IN BI	FINOSHF	<u>.</u>
•	\$170000104 •		7 Y S	5 P P P P P P P P P P P P P P P P P P P	FIXERR	• •
	•		3 A L	61 GET ARG1	FTHUSHE	37
Ş	53110		SAL		FINDSAF	9.0
	614000004		787 787	. I	FINDSAF	<u>,</u>
56	0445000065 +		, a	64,435,NDX	FINDSHF	;
:	0311000004		7 N	-	OSMF	5 (
,	2000001115		7 Y S	6ET ARG3	FINOSAF	?;
	>****		1 4 7	-	:	,

TABLE IX. ANAM COMPUTER LISTING (CONT)

30	0301000034 •		82	141,391				DSMF
	11901		Q X P	Tx.				DSMF
	• 100000015		240		:			DSH.
2 2	20000011	100	2 - 40	1971/60ALIENVACIALE	CET ABGA			CINDONE
	53110		7		100			FINDSME
35	0311000037 +		2 N	X1,0POUT				DSMF
	+ £0100001616		3 A S	ISAVE				FIXERR
9	53050		SAO	X5				FIXERR
	0400000055		EQ.	HO, BO, DSAF				DSMF
37	10611	りついつ	8 X &	# T				OSAF
	+ 2100000916		2000	OUIFILE				1110
? :	* 100000110			STATE SALIENDER SECALE	,			2007
7	51500001C		243	1 SAVE				T L ACK
7	1 7 200000000			340.040				7 7 7 7 7
;	14000001	3	284	80+1				DSMF
	01450	!	583	· · · · · · · · · · · · · · · · · · ·				DSMF
45	5111000001		S A 1	81+1	GET ARG 2			FIRDSM
	53210		SAZ					FINDSMF
	10622		9×9	x2				DSMF
9	0545000054 +		N	64,43,80				OSME
			546	H+2				DSMF
~	0100000000	=	4417001	AT OUTFREE /SAMPLE				OSMF
	5150000103 +	:	545	_				FIXFRA
	93050		SAS	1				FIXERR
_			3	BO. BO. DSMF				DSME
2,4	6140000002	3	584	~				DS.MF
	0545000075		NE	84,85,CL				USME
55			SAO	N+2				DSMF
	43700		MA7					DSMF
20	010000000 x	Z	Ac AD IN					DSAF
_			145	ARGA				FIXERR
	01160		100	X.				T I X F K K
20	2000001116		146	7+19	CEL AKUS AUUKESS			LINORT
,	01/66		747	7	SIUNE ERRUR LUDE	IN AKES		
^			C 4 7	LOAVE				***
	00000		2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				K K U K U C
6	* 220000000		7	80.8U.U.S.R.				1270
•		Ĭ	£ 0.	- AGA				FINDSH
	1000004416		P (7 + 7 9				ECONI 4
0	2000004616		242	2 · • • •				THOUNTY
	10055		e X e	S :				FINOSAF
	01196		145	a .	GET AKGI ADURESS			THOULA
•	01010		9 Y P	- K	SIUNE KEL PKU PUS IN	7 9 8 6	121 730	T L CONT L
	-		0 4 0	\$ * * * *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			TENDAL
3	TOCOCOTIC		140	7410	GET ANGE AUDRESS			
	* 601000001		0 # 6 #	1 × ×	JUNE NAME INVEN	131 70	TOTAL DESCRIPTION	
	٠,		745					E I KE D D
_	040000002 +		20	BO.BO.DSMF				FINDSMF
: 2	000000000000000000000000000000000000000	u	0414					DSMF
	43405	,		o er				DAME
	20416		4 X 7	164				DSMF
	11714		2 2 8	**************************************				DSAF
	71/17		A X 7	110				OSAF

TABLE IX. ANAM COMPUTER LISTING (CONT)

OSMF				COMPASS	COMPASS 3.6-494.	40/01/24.	40/07/24. 15.34.43.	PAGE	•
2		נו	WAL TER	UNIFILE, RECALL				DSME	4
11	>110000012 •		CLUSE	CLUSE OUTFILE, RECALL				DSMF	Ş
72	\$120000103		SAS	ISAVE				FIXERR	2
	53050		240	×5				FIXERR	6
701	0400000022 +		60	80,80,0SMF				DSAF	20
103	-		2558	-				FIXERR	20
101			855	-				FIXERR	21
105			7 S S R	12005				DSMF	5
25427	27345	FABY	2550	12005				DSMF	25
57017			858	65				DECFIL	•
57120			828	65				DECF 11	•
\$1221			F NO					DSMF	5
	43300B CM	STORAGE USED	USED	266 STATEMENTS		SYMBOLS			
			ASSCHOLY			105 REFERENCES			

TABLE IX. ANAM COMPUTER LISTING (CONT)

USAF						COMPASS	COMPASS 3.6-498.	80/07/28	80707728 15.39.43.	PAGE
STRBULIC REFERENCE	REFERENCE	TABLE.								
ARGA	104	-	2/49 \$	3/33	1 10/5					
7	22	-	31.29	4/01 1						
56.0	9	EXTERNAL .	3/05	3/14	4/02	4/03				
DSMF	22	_	2/35 €	7 6677	3/10	3/16	3127	3/39	3/51	4/05
	7.5		2/36 €	2/38	3752 6	5/57				
INFILE	-		2/37 €	3/03 \$	3/04	3/33				
LIBR	•	EXFERNALO	37.32							
I DAW	•		3124							
ISAVE	103		2/46 S	3/08	3/14	3/25	3/37	3/49	4/03	1 90/4
-	.,		3/23 \$	3/24 L	•			•		
_	90		3/30 S	3/32 L						
IDX	69	•	5/24	3/40 [
1004	37	_	3/07	3/11 6						
<u>.</u>	34	PROGRAM	3/01	3/05 L						
WIFILE	12	•	2/38 L	3/12 \$	3/13	3/25	10/5	4/02		
3	*	•	3122	3/28 L	1					
2	;	FRUGRAM	2/55	3/17 6						
CP=23	0		3/05 0	3/05	3/14 0	3/14	4/02 0	4/02	4/03 0	4/03
CP-9ACL	-		3/05 0	3/05	3/14 0	3/14	4/02 0	4/02	0 60/4	60/4
06-40	150		3/04 0	3/05	3/13 0	3/14	4/02 D	4/03)
ABX	105		2/34	3/40	1 80/4					
IAdv	27452	•	5/39	7 60/5						
ZANK	9		2/39	2/43 L						
YNI 7	57017		2/38	2/38	2/39	2/38	•			
LUNK	•		2/38	2/41 4						
JUNK TONK	57120	PROGRAM	5/39	5/39	2/39	2/39				

SECTION 3 - PROGRAM UPDATMF 10

3.1 PURPOSE

Program UPDATMF 10 adds to the data in the old net value source file those records found to be missing and outputs a new updated net value source file.

3.2 PRINCIPAL FUNCTIONS

Program UPDATMF, shown in figure 11, accepts as input the old net value source file and update cards with net link weight data that have been added by military scientists. The program outputs an updated net value source file for later use in program LINK 23. The principal functions of program UPDATMF are as follows:

- a. Inserts data contained in update data cards into proper records in the updated net value source file. Prints out error remarks to identify defective input data. These data cards must be sorted in ascending order on columns 1-7.
- b. Tests the content of output data against established standards and ranges of values and prints out net type matrices found to be deficient or defective.
- c. Prints out the image of every net type matrix in the updated net value source file (formatted). Any matrix having deficient or defective data (see para b above) will contain an asterisk (*) in column 8 of the net header record. This column is normally blank.
 - d. Writes out updated net value source file.

3.3 INPUT/OUTPUT DESCRIPTION

Input to program UPDATMF consists of a program control card, two types of data cards, and the old net value source file. Output consists of the updated net value source file for input to program LINK [23], a printout of the formatted updated net value source file, and remarks identifying defective input data.

3.3.1 Input Format

The format of input data, including information necessary to punch input data cards for program UPDATMF, is given in the following figures and table:

- a. Program control card, figure 12, page 3-5.
- b. Net type header update card (14), figure 13, page 3-6.
- c. Operator update card (14), figure 14, page 3-8.
- d Net value source file (13), table X, page 3-11.

3.3.2 Output Format

The format of or put from program UPDATMF is given in the updated value source file (13), table X, page 3-11.

3.4 PROCESS DESCRIPTION

- a. Program UPDATMF is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer and requires 1300008 words of central memory for execution.
- b. The program reads in an update record card and then reads a record from the old net value source file. The net type code on the update card is then tested against the net type code of the old net value source record. If the net type code of the update card is larger, the old net value source record is written on the updated net value source file and a new record is read from the old net value source file.
- c. If the net type code of the old net value source file is larger than the net type code of the update record, all information on the update record is written on the updated net value source file and a new update record is read. This procedure adds new net types to the updated net value source file that are not presently in the old net value source file.
- d. If the net type code of the old net value source file is equal to the net type code of the update record, the code number and row number of the update record are tested to determine the mode of updating required. The procedure for updating is summarized as follows:
- (1) Code Number Equals 0, No New Net Type Indicated. The program updates the net header record of the net type being processed. Information on the net header record of the old net value source file being processed is replaced by the new information on the update record.
- (2) Code Number Equals 6, New Net Type Indicated. The program produces a new net type containing the same information as an old net type (except net type code and any indicated data changes). A message is printed out to inform the user that this has been done and to warn that the updated net value source file must be sorted before being used again.
- (3) Code Number Equals 1. The program adds an operator record to the net type being processed. The record being added is inserted either after the record with the same row number as that on the update record or before the next larger row number, if the row number of the update record is not presently being used. All information contained on the update record is added to the net type being processed.
- (4) <u>Code Number Equals 2</u>. The program updates the operator record from the old net value source file with the same row number and operator name as the update record. All information on the operator record of the old net value source file is replaced by the information on the update record.

- (5) <u>Code Number Equals 3</u>. The program deletes the operator from the net type being processed with the same row number and operator name as the update record.
- (6) <u>Code Number Equals 5</u>. The program deletes the net type being processed. All information associated with this net type is dropped.
- e. A complete listing of the updated net value source file is produced.

3.5 PROGRAM OPERATION

Figure 15, page 3-16, is a listing of all system and UPDATE control cares necessary to execute UPDATMF for a typical computer run.

3.6 LIMITATIONS

The program is limited to a maximum of 120 operator names for a net type and a maximum of 55 link value codes for an operator.

3.7 RUNNING TIME

Running time is estimated at 1 minute of central processing time per 200 net types processed.

3.8 COMPUTER PROGRAM LISTING

Table XI, page 3-17, contains a complete program listing for UPDATMF and associated subroutines PAGEPRT and DSMF, annotated to aid in the understanding of the program functioning.

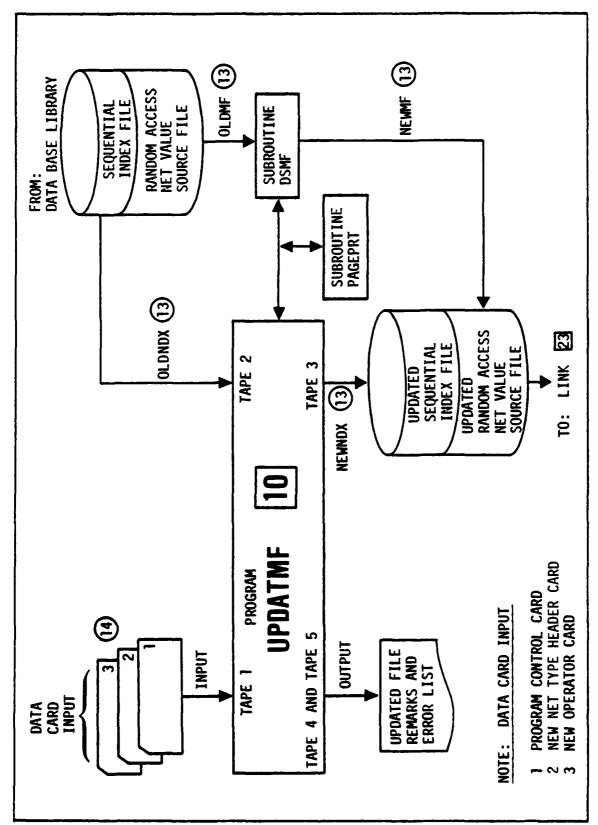


Figure 11. Program UPDATMF, functional block diagram.

FIELD DESCRIPTION	UPDATMFbbb. This field must be specified.	Title to be output on page headings.	Security classification to be output on page headings. Cannot be blank.	Logical file name of random access master file to be read and updated; usually OLDMF	Logical file name of updated random access master file to be written; usually NEWMF.	
MNEMONIC	IDDATA	TITLE	ICLASS	INFILE	OUTFILE	
BCD FORMAT	A10	3A10	2A10	A5	A5	
CARD COL	1-10	11-40	41-60	61-65	02-99	
FIELD NO.	Ħ	2	m	4	50	

Figure 12. UPDATMF input, program control card.

FIELD DESCRIPTION Net type code.	Code number: 0 = Net type header update 5 = Delete net 6 = Create similar net type	Blank	Net value.	Duty cycle, normal combat posture.	Duty cycle, light combat posture.	Duty cycle, heavy combat posture.	Duty cycle, reserve combat posture.	Duty cycle, priority combat posture.	Duty cycle, nuclear delivery combat posture.	Duty cycle, spare.	Duty cycle, spare.	Duty cycle, nuclear warning posture.	Minimum cull distance; 0000 if no cull is to be made.
MIEMONIC	KCODE	IGNORED	KNV	KDC(1)	KDC(2)	KDC(3)	KDC(4)	KDC(5)	KDC(6)	KDC(7)	KDC(8)	(6) OUT	KMIN
BCD FORMAT A6	A1	A1	A3	A2	A2	A2	A2	A 2	A2	A2	A2	A2	A 4
CARD COL 1-6	7	∞	9-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-29	30-33
FIELD NO.	8	m	4	\$	9	7	∞	6	10	11	12	13	14

Figure 13. UPDATMF input, net type header update card (14).

					3		t1y				= sert	pu
FIFLD DESCRIPTION	Maximum cull distance; *** if no cull is to be made.				70-72 if intelligence factor or 70-75 if new net type code.	fication.	First digit of class of service (not presently used).	Second and third digits of class of service (not presently used).	Blank, unless specified otherwise.		net type, fill in all fields. net type identical to a net type presently in the old net value source; $1-6$ = net type code of existing type, column 7 = 6, and columns $70-75$ = of type to be created. i data for any field other than intelligence factor (columns $70-72$), insert	in appropriate fields. or more fields in an existing net type, columns $1-7$ = net type code and
PIFI	Maximum cull dis be made.	Category code.	Net name.	Blank	70-72 if intellinet type code.	Security classification.	First digit of cused).	Second and third digi (not presently used).	Blank, unless sp		elds. net type presently existing type, colu r than intelligence	disting net type, co
MNEMONIC	KMAX	KCAT	KNAME		KNUNET	KSEC	KCLSVC	KSUBCL	MAYBE		net type, fill in all fields. net type identical to a net t: 1-6 = net type code of exist of type to be created. data for any field other that	in appropriate fields. or more fields in an ex
BCD FORMAT	А3	A 1	2A10,A8		A6	A1	A1	A2	A1			
CARD COL	34-36	37	38-65	69-99	70–75	9/	11	78–79	80		To add a new To add a new file, columns net type code To change the	new data only To update one
FIELD NO.	15	16	17	18	19	20	21	22	23	REMARKS:		

UPDATMF input, net type header update card (14) (cont). Figure 13.

column 7 = 0. Insert new data only in those fields to be updated. To delete a net type, columns 1-6 = net type code and column 7 = 5.

FIELD NO.	CARD COL	BCD FORMAT	MNEMONIC	FIELD DESCRIPTION
1	1-6	94	KNET	Net type code.
2	7	Al	KCODE	Code number:
				<pre>1 = Add operator 2 = Operator update 3 = Delete operator</pre>
က	8-9	A 2	KRT	Old line number if the line number for existing operator is to be changed; otherwise, blank.
4	10-21	A10,A2	KOP	Operator name.
5	22-23			Blank
9	24-25	A2	KLINE	Line number.
7	26-80	5A10,A5	KDTA	Link factor codes. There must be as many codes as the line number.
REMARKS:	•••			

To add a new operator, fill in all fields.

To change link factor codes for an existing operator, columns 1-6 = net type code, column 7 = 2, columns 10-23 = operator name, columns 24-25 = line number, and columns 26-80 (as many as needed) = new link factor codes.

To change link factor codes and line number of an existing operator, columns 1-6 = net type code, column 7 = 2, columns 8-9 = 01d line number, columns 10-23 = 0 operator name, columns 24-25 = new line number, and columns 26-80 (as many as needed for new line number) = new link factor codes.

To delete an operator, columns 1-6 = net type code, column 7 = 3, columns 10-23 = operatorname, and columns 24-25 = 1ine number.

Figure 14. UPDATMF input, operator update card $egin{pmatrix} 14 \end{pmatrix}$

File Descrip	ption: Net Value Source File (13	
File Name:	OLDMF	Logical Unit:	OLDMF
Mode/Type:	BCD Record Ler	gth: 80 characte	rs
Origin:	Previous run of UPDATMF 10		
	ANAM 9; UPDATMF 10; LI	NK 23	

Notes:

1. The net value source file is a name-accessible random file. The net type code name, with a sequential block index appended, is used to access a data block. Every net type code requires a set of general net type data called the header record. In addition, each normal communications net type code (category = 0) requires a set of data called an operator record for each unique operator. Both of these record types are 80 characters in length. The records are packed 8 to a block and, depending upon the number of operators in the net type, data for the net type code may consist of 1 to 15 data blocks, each of which contains 640 characters. A partially filled data block is padded with blanks.

The general record/block format is as follows:

	BLOCK 1
Record 1	Header data record
2	Data record-operator 1
3	Data record-operator 2
4	Data record-operator 3
5	Data record-operator 4
6	Data record-operator 5
7	Data record-operator 6
8	Data record-operator 7

		BLOCK 2
Record	1.	Data record-operator 8
	2	Data record-operator 9
	3	Data record-operator 10
	4	Data record-operator 11
	5	Data record-operator 12
	6	Data record-operator 13
	7	Data record-operator 14
	8	Data record-operator 15

Block 2 is repeated, if necessary, to contain all operators, to a total of 15 blocks. Actually, most of the normal communications

Net Value Source File (13) (Cont)

net types require no more than one or two blocks. All other kinds of net type codes are limited to one block that contains only the header data record and enough blanks to fill the block.

2. When updating the random access net value source file, it is necessary to access each record, update as indicated, then write the record on the new random access net value source file. To do this, a sequential index file is maintained for each random access version created. The logical file name of the index file for input is OLDNDX (internal program file name is TAPE2) and NEWNDX (internal program file name is TAPE3) for output. Both of these files are used only in program UPDATMF. The format of the sequential index file is given at the end of the format for the net value source file in table X.

TABLE X. NET VALUE SOURCE FILE (13)

Data Description	Field Size	Field Position	Remarks
Header Data Record			
Net type code	•	1–6	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
Number of operators	4	7-10	Number of operators plus l in this net type category; right-justified.
Record identifier	-	11	Contains the digit 0 to identify a net type header record.
Net value	က	12-14	A 3-digit number indicating the relative tactical importance of the net type (range = .001990).
Net duty cycles (range = .0199)	2	15-16	A 2-digit number assigned as the net duty cycle for normal combat posture.
		17–18	A 2-digit number assigned as the net duty cycle for <u>light</u> combat posture.
	2	19-20	A 2-digit number assigned as the net duty cycle for heavy combat posture.
	2	21-22	A 2-digit number assigned as the net duty cycle for reserve combat posture.

TABLE X. NET VALUE SOURCE FILE (13) (CONT.)

Data Description	Field Size	Field Position	Remarks
Net duty cycles (cont)	2	23-24	A 2-digit number assigned as the net duty cycle for priority combat posture.
	7	25-26	A 2-digit number assigned as the net duty cycle for nuclear delivery combat posture.
	2	27-38	Spare for special assignment.
	2	29–30	Spare for special assignment.
	7	31–32	A 2-digit number assigned as the net duty cycle for nuclear warning combat posture.
Minimum cull distance	4	33–36	Minimum length, in meters, for links to be formed. If no cull is to be made on minimum link length, this field contains 0000. Minimum cull distance must be less than maximum cull distance.
Maximum cull distance	er .	37–39	Maximum length, in kilometers, for links to be formed. If no cull is to be made on maximum link length, this field contains three blanks. Maximum cull distance must be greater than mainimum cull distance.
Category code	.	40	A 1-digit code indicating the category of the net type as follows: 0 = normal communications net with different link values for different pairs of operators, 1 = radio relay or data link net. Each transmitter is linked with every receiver (normally, only one of each in a net) with link values equal to the net value multiplied by a weight factor associated with the posture

TABLE X. NET VALUE SOURCE FILE (13) (CONT)

Data Description	Field Size	Field Position	Remarks
Category code (cont)			code of the transmitter: 2 = warning net, or other net where all links have the same value and transmitters share time in the net equally, 3 = radar net, where transmitters are linked only with their own receivers and no culling on distance is made, and 4 = obsolete nets, which are bypassed in linking.
Net name	28	41–68	A 28-character (or smaller) alphanumeric name assigned to each net type; left-justified.
		69–72	Blank
Intelligence factor	e	73-75	A 3-digit number indicating the intelligence value of the net to opposing forces (range = 00.1-99.9).
Security classification	н	76	A 1-digit code indicating the highest security classification ever assigned in prior deployments to equipments in this net type: 0 = unclassified, 1 = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.
Class of service	က	61-11	A 3-digit code indicating class and subclass of service. The first digit (position 77) is assigned to class of service: 1 = area/system, 2 = command, 3 = traffic, 4 = information, 5 = survey, 6 = logistics, 7 = intelligence, 8 = fire support, 9 = noncommunications, 0 = intertheater and major headquarters. The second

TABLE X. NET VALUE SOURCE FILE (13) (CONT)

Data Description	Field Size	Field Posttion	Remarks
Class of service (cont)			and third digits (positions 78-79) are assigned to subclasses of service that indicate the type of net within each major class of service. (This field is not presently used and may not be up-to-date.)
	T	80	Blank
Operator Data Record			
Net type code	9	1-6	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
Record identifier	H	7	Contains the digit 1 to identify an operator record.
Operator name	14	8-21	Standard alphanumeric name assigned to each operator; left-justified. Contains 1 to 14 characters, with characters 13 and 14 reserved to differentiate between 11ke operators (1.e., pilot 1 and pilot 2). In this file, characters 13 and 14 are blank, since such distinction is not desired.
Matrix line number	2	22–23	A 2-digic sequential line number assigned to each operator when added to the matrix. Two operators

TABLE X. NET VALUE SOURCE FILE (13) (CONT)

)
Data Description	Field Size	Field Position	Remarks
Matrix line number (cont)			who have the same function may be assigned the same line number.
Link factor code	-	24-78	A 1-digit code (0 to 9) indicating the relative importance of a link between two distinct operators. A zero prohibits the operators from linking under any conditions. Data must be entered for each operator combination between the operator being treated and all prior operators in the matrix. The number of link factor codes must equal the matrix line number for the operator.
	2	79–80	Blank
Sequential Index File (used		only by program UPDATMF)	IMF)
	E	1-3	Blank
Net type code	9	6-7	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
Block sequence flag	г	10	A = block 1, B = block 2,, N = block 14, and 0 = block 15. Each net type code may have as many as 15 blocks of data.
NOTE: This data record i	s repeated	for each da	is repeated for <u>each</u> data block entry in the random access net

Figure 16. UPDATMF control card listing.

	1-190 - 27/E/		30/07/28. 15.39.46	15.39.46	PAGE
-	PROGRAM UPUAINFI	PROGRAM UPDAINFIULDNDX.NEWNDX,INPUI.OUIPUI,IAPE5,IAPE1-INPUI. TAPE2-1)LDNDX,IAPE3-NEWNDX,IAPE5-UUIPUI,IAPE6	SRT INP I		
	C FILE CONTENTS AND USES!	USESI	UPDAINE	9 ~	
~	ı		UPDAINE	3 0 (
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	C TAPEZGA DABAN	INDEX TO THE OID MANTERFILE TO BE UPDATED	FINIDAE		
	TAPE 3 (NE ANDX	INDEX TO THE NEW UPDATED MASTERFILE	FINUDME	•	
01		A LISTING OF THE NEW UPDATED MASTER FILE	UPDATME	13	
	U	FULLUMED BY A LISTING OF THE UPDATE CARDS	UPDAIME	14	
		AND REMARKS, MARNING AND ERROR MESSAGES.	UPDAINE	<u>\$</u>	
	C INTERMEDIATE FILE:	TAPES HULUS THE UPDATE CARD LISTING AND	UPDAINE	9 !	
4.	، د	THE REMARKS, MARNING AND ERROR MESSAGES	UPUA I ME	<u> </u>	
•	ب ر		UPDATAF	2	
	U	TAPEG HOLDS THE SORTED UPDATE CAKD FILE	SRIINPI	~	
	U		22NON25	09	
:			22N0V79	9	
2	2		22M0V79	29	
	ฮ	UPDAINT (CAKO 10)	6/A0W22	5	
	09-11	CALLE PUR TAGE METURES	02 NUN22	.	
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	0/-99	LUGICAL FILE MAME OF RANDOM ACCESS UPDATED		9	
		MASTER FILE TO BE DUTPUTCUSUALLY NEWNF)		69	
			22NJV79	0 2	
2	C UPDAIE DATA CARD TYPES-	•	22NDV79	2;	
2	TOUCH PERCENT		22MUN22	2,6	
		METTYPE C.10F	22NDV79	: 2	
			22NUV79	12	
			22NUV79	26	
35	J	. DUPLICATE DATA FOR THIS NETTYPE AN	22MUV79	11	
	U	ASSIGN TO NEW NETTYPE CODE GIVEN IN	22NDV79	8.	
			22NDV79	50	
		NET VALUE	6/ A()N/2	2 6	
1,7	[]-21 [-21]	AET DELV CYCLE, LIGHT BOXTUDE	2280879		
2		NET DULY CYCLE, HEAVY POSTURE	22NUV79	93.	
		NET DUTY CYCLE, RESERVE POSTURE	22NOV7+	7	
		DUTY CICLE, PRIDRITY PUSTURE	22NOV 79	62	
		NET UUTY CICLE, NUCLEAR DELIVERY POSTURE	22NJV79	98	
45	C 24-25	NET DUTY CYCLE, SPARE	22N0V79	9.7	
			52N0N22	3D ;	
		MET DOIN CYCLE, NUCLEAR MARKING PUSIONE	22NOV79	7 0	
	30-33	AINIBOR DIVINGE COLL VALUE (BOOKEN) NAV	22 N.U. 25	3 5	
90		CATEGORY COOF OF NEITYPE	22NDV79	. ~	
		z	22NDV74	· 6	
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	Ų,	1-RADIO RELAY OR DATA LINK	22NJV79	42	
3.5	ب ب	AND AND ME AND	5/ACN22	¢ 6	
•		4-DBSOLETE OR INAPPROPRIATE FOR LINKING	22NOV 79	. 60	
	38-65	NET NAME	22NJV 79	66	

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22NDV73	22NUV79	54 NUN22	22NUV 79	22MDV79	22NDV 79	22M0V79	AJADN22	ZZMIJV 79	22M0M29	22MUV79	22MDV74	22N0V79	22M0V79	22N0V79	22NDV79	22NDV74	22M0V79	22NDV 79	6/ADN22	22MUV79	27 AUN22	6/ACMC2	22NDV79	22MUV79	22NUV79	22NOV29	61 AON 22	22N0V79	22N0V79	22NI)V79	22NDV 79	22NUV79	TYDES OF THE	MIYPHEP	NIYPHFP	NIYPHFP	ZIYPRFP	HOLATAR	UPCATAR	DECFIL	DECFIL	0ECF 11	NIYPHFP	GFUALDE	UPDAINE	UPDAFME	FINUDAL
70-72 * NET INTELLIGENCE 73-75 * BLANK	IF COL 7-6, 70-75 - NEITYPE CODE FOR NEW	JANIER DU RUITANO DE LA PERSONA DE LA PERSON	5.2	**** TO ADD A NEW METTYPE, FILL IN ALL FIELDS (10.0). TO UPDATE	EXISTING DATA, FILL IN COLS 1-7 (10=0) AND UPDATED DATA FIELDS	CONLY, TO DELETE A NETTYPE, FILL IN COLS 1-7 410-59. TO	CKINE A NEW TOTAL THE AN EXISTING NET THE TOTAL	Int (10.40), VOL. 20 (NEITHE CODE TOR NET METHYRIS AND ANY ORIGINAL CODE TO THE METHYRIS AND ANY ORIGINAL CODE TO THE METHYRIS AND ANY ORIGINAL CODE TO THE METHYRIS AND THE CODE TO THE TOTAL C	FIREUS TO BE CORNELLY OF THE TOTAL CONT.			OPERA TOR LECORU:	COL 1- 6 NETTYPE COUE	7 (RECUAD ID)		2 - MODIFY OPERATOR IN EXISTING METTYPE		A-9 CLO HATRIX LINE NUMBER FOR OPERATOR WHEN A	CANALA TANALA TA	COLS Z4-Z55 GLANK DIMENNISE	10-47 OFERAIOR NAME (FFT 100-11-TEU)	CA-LO CAMPIA LINE NOVERT OF THE BINGE OF CORES	SUCH SUCH THE NUMBER (COLS 24+25)	**** 10 AUD A NEW OPERATOR, FILL IN ALL FIELDS (10-1). TO CHANGE	LINK FACTOM COJES, FILL IN COLS 1-7 (ID=2), 10-25 (OPERATOR	NAME AND LINE NUMBERD, AND 26-60 (NEW LINK FACTOR CODESAS	MALY AS MEEDED). IS CHANGE LINK FACTOR CODES AND MATRIX LINE	NUMBER, FILL IN COLS 1-7 (10-2), 8-9 (DIO MAIRIX LINE NUMBER), 10-31 (DBCStato) NAME, 32-35 (NCS MATO) 106 (NUMBER), AND	26-20 (NEW TINK FACTOR COORS TO MATCH WHE MATCH CORES.)	10 DELETE AN UPERATUR, FILL IN COLS 1-7 (10-3), 10-25	CUPERATOR VAME AND MATRIX LINE NUMBERS.		COLUMN APPRAISE MANAGE ALE STREET MANAGEMENT AND ALECT COLUMN	THE CLOSURE THE STATE OF THE THE THE STATE OF THE TAKE TAKE TAKE TAKE TAKE TAKE TAKE TAK	IS ACCESSED BY CALL DSAFINADANTYPCOD WHERE ARG-OLDPENDALMENTED.		ACCESSED.	COMMONACTORICO NODICE TO SECUED TO SECUED MONETA DENERGY	◆ 1CLASS(2) 111(6(3)	CONTUNINCENTAL INC. CO. CO. CO. CO. CO. CO. CO. CO. CO. C	CUMMAN/OUTDAF:/JUTibs.d), 18LK2	DIMENSIUM TAUKCF(15)	INIEGEM DUTFILE, DUTADOR	INTEGER ISSUED	INFATCION ANAMELSIANTRAMELS/ANDOING(4/) ANDOING(4/) AND TALES OF AND TALES.	DIMENSION LAFAC(55)	INIEGER LINE(14)

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1			FINDOME	~
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			COMENIS	922
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TABLE XI. UPDATMF COMPUTER LISTING (CONT)

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415		IF (ILINE(J).E. J. ZHXX . OR. MFRT(J).EQ. ZHXX) .O TO 305		UPDATHE	172	
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415		MFRICIRO) . 2HAX		UPDA THF	177	
		J. 180		UPDATME	170	
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		WRITE (4, 3051)		UPDATHE	181	
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IF (KCJDE NE-1H6)GJ TO 350 COUNET CONFORTS MUVE UPDATE DATA TO UUTPUT AREA FUR HEADER. THEN, GO READ COMENTS MEAT UPDATE ACURD CONFORTS IF (KNUCHEINE-IBL) KOUTNY-KNV IF (KNUCHEINE-IBL) KOUTOC(1) ** KUC(1) ** KU	25.000		CRIMET	a
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IF (KNUME I NE - IBL) KUUTONET 3501 CONTINUE 1F (KNUME I NE - IBL) KUUTONENNY 1F (KCAT'NE - IBL) KUUTONET CONUET 1F (KCAT'NE - IBL) KUUTONET 1F (KCAT'NE - IBL) KUUTONET 1F (KNUME I NE - IBL) KUUTONET 1F (KNUME I I NE IBL) KUUTONET 1F (KNUME I I N	, (THE STATE OF STATE OF THE STATE		
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	ى		COMENTS	212
CONTINUE 11. (KNV.NE.18L) & COUTNY-KNV 12. (KCAT.NE.18L) & COUTCAT-KCAT 13. (A.1.) 14. (KOC(1).NE.18L) & COUTCAT-KOC(1) 15. (KOC(1).NE.18L) & COUTOC(1)-KOC(1) 16. (KNAME(1).EQ.18L) & CO TO 353		IF (KNOWE I "NE" I BLIKOUI INT "KNOWE I	UPDAINE	524
	320	_	CNUMET	1,4
		IF (KNV.NE.19L) KODINV-KNV	UPDATHE	977
DO 351 J=1,) IF (KDC(J).NE.18L) KOUTDC(J)-KDC(J) IF (KNAME(1).EQ.18L) GO TO 353 UPDAINF		JF (KCAT.NE.18t.) KOULCAT.KCAT	UPDATME	227
IF (KDC(1), AL. 18L) KOUTDC(1) - KDC(1) IF (KNAME(1), EQ. 18L) GO TO 353		7 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	HODATME	224
IF (KNAME(1).Eq.18L) GO TO 353	**	3 -		9,00
(KNAME(1).EG.1BL) GO TO 353	22		OF UA LO	677
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SAS	365 364 374			UPDAINF UPDAINF UPDAINF UPDAINF	232 233 234 235	
520	360	IF (KMIN.NE.IBL) KUJUNN " KMIN IF (KMAX.EQ.IBL) GD TO 100 IF (KMAX.E3.3H+++) KMAX.IdL AQUIMAX " KMAX GO TO 100 IF(KCUDE.NE.NHI)GOTJ 365		UPDAINF UPDAINF UPDAINF UPDAINF UPDAINF	236 236 240 241	
525		MOVE NEW UPERATUR DATA TO OUTPUT AKEA. THEN UPDATE RECORD JF(LHOLD.L.1.119)GOTO 361	THEN, GO READ NEXT	COMENTS COMENTS COMENTS COMENTS UPCATAR	262 264 264 264 264 264 264	
530	•	FORMATIVE ERADR: NAME THAN 119 OPERATORS FOR THIS NET. PRATUR 4AS DROPPED.+/) KRMKCF-KRMKCT+2 IF (KRMKCT-GE-53) CALL RMKSPG	S NET. ABOVE OPE		9 ~	
535	361			CPOAINF	250 250 251 251 251 251	
240	363	107 (180) - MLINE 10 363 Ja 1.6 10141J.1801-K0141J 60 10 100		CPDATAF	255 255 255 255 255 255 255 255 255 255	
545	9 9 0 0	FIND MATCHING OPERATOR IN EXISTING DATA IF (KRT.EQ.IBL) GO TO 3651 KRIHOL-KLINE KLINE - KRT		CORENIS CORENIS CORENIS UPDAIRF UPDAIRF	246 246 259 259 250 250	
550	36.51	KRT- KRTH3L DG 366 1-1,LHGL0 IF (KJP(1).NE.1UP(1,1)) GG TG 366 IF (KJP(2,NE.1UP(1,2)) GG TG 366 IF(KLPERTI1)-EU-2HFF) GG TG 366 CONTAUL:		00000000000000000000000000000000000000	261 262 263 264 265 266	
560	367		E MATCHED.•/1	UPDAINF UPDAINF UPDAINF UPDAINF UPDAINF	269 273 273 273 274	
565		SET FLAG TO DELETE OPERATUR, READ NEXT UPDATE RECORD ILINE(11)-20xxx GU TO 100 UPDATE EXISTING OPERATUR, READ NEXT UPDATE RECORD	RECORD CORD	COMENTS COMENTS COMENTS UPDATAF COMENTS COMENTS	300 302 275 276 303	

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630		1 Filt	E CREATER	bur .	NUST B	1 FILE CREATED. JOH MUST BE RERUN AFTER ERRORS ARE CORRECTED. SEE NITPHFS	FTERE	RRORS A	RE COR	RECTED.	SEE	NIYPHFS	51	
		2 1131	IING FUR	FLAGGE	O DATA	Z LISIING FUR FLAGGED DATA ERRORS+66x,1H+/2H +,132x,1H+/2H +,5x,	X . 1110/	24 +, 13	ZX . IH .	12H 4.5	×	NIYPMFS	50	
		3 +411	UATA DE	LETEU-	-REPEAT	3 -ALL DATA JELETEDREPEATALL DATA DELETED FOR NET TYPES WITH FA NIYPHFS	A DELE	TED FUR	NET 1	IPES WI	TH FA	NIYPRES	23	
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633		100 9	PUT AS PA	LINIED.	ONLY	6 DUIPUT AS PAINTED. ONLY UPDATES TO INDIVIDUAL OPERATORS IN ACTIV NIYPHES	IONI O	VIDUAL (DPERATI	JRS JR	AC 11V	NIYPNFS	54	
		7E NE	IS ARE RE	OUTRED	. t. 3K. L.	7E NEIS ARE REQUIRED.*.3X,1H+/2H +,132X,1H+/2H +,5X,+ENTRIES MITH E NTYPMFS	32X, 1H	*/2H **	SXIBEN	IRIES H	TH E	NIYPMFS	52	
		BKKOKS	YOUN NI S	NE CAR	DS JERE	BKKDKS IN UPDATE CAADS JEKE IGNURED. CORRECTED UPDATE CARDS ARE RE NIYPHFS	CORE	ECTED UP	PDATE	ARDS A	RE RE	NIYPHES	92	
		94018	ED 40X.	1H+/2H	+ 132X	9-UIRED 40x . 1H4/2H . 132x . 1H4/1X . 134(1H4)1	34(140	-				NIYPHFS	23	
		CALL	REMARKE	13H	. ERROR	CALL REMARKISSH ERRORS DETECTED BY UPDATHF.	0 87 0	POATHF.	_			FINCOME	37	
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TABLE XI. UPDATMF COMPUTER LISTING (CONT)

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	ADURESS	LENGIH		BINARY C	BINARY COMTRUL CARDS.				
	0 227.4	57221		IDENT D	USMF				
			81.304.5	IYPE	AUORESS	LENGIH			
			PR JGRANO INDATA	LUCAL	••	57221 101			
				COMBON	•	101			
			ENTRY PUTATS.	115.					
			DSMF	22+	•	E 72+			
			EXIERNAL SYMBOLS.	SYMBOLS.					
			IORR	IORE	243				

TABLE XI. UPDATMF COMPUTER LISTING (CONT)

PAGE 2	DSAF 2	FINDSAF							TINDONIA TINDONIA				FINDSAF 20					FINDSAF 28			SMF	9				≟	-	DSMF 12			m 			FINDSH' 31		FINDSMF 40		-	FINDSAF 42	FINDSH 43
COMPASS 3.6-498. du/07/28. 15.39.59.	IDENT DSNF	TA PRINCE AND ACETAEC AND AFFECTE AN OBSERVING CASTER CT	DANDON ACCESS FILE WILL A NAME INDEX. SEE NOSTRE PARE	15 FULLOWS:	CALL DSMF(ARG1, ARG2, ARG3) ARG4) FT	GUMENIS OF CALL FROM FIN ARE	OPEN FILE	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	THE OF THE MANY TO MARKET GOVERN #500 A	BE BEAD/NRTITER	MRO.O. DEFINES LFN OF FILE	LINDEX	ERROR COOR IORNED FI	ANGLE OF AN DESTREAM OF CALL	STATES OF THE STATES OF THE	7-020	CALL DSMF(PRU, INDEX)	THE NOT TO AND A THE NOT THE NOT THE TOTAL OR THE TOTAL O	1	L DSMF (2,0, INERR)	42/0HDSMF,18/228	7	FFILES CINK,000,480M-CDRK,007,4100-1854,10003,457K-108M-7E/ F RFILES CONK,05,482M-28NK,053,4100-188Y,12005)	DATA	USE /INDATA/	65	OSE /UDIOAIA/ DSA 65 05AF	USE	04	ISAVE	PUT ADDR OF ARG LIST IN 81	180	AKCA ANG	TOTAL CELL PAGE TOTAL	• •	- ×	94.45.40x	Alskii	B1+2 GET ARG3	SAI AI
DSMF																					0 04231506555555000022		12 17252406111405000003			101	101		23 74600	5160003103 +			+ 5010000716	25 54110		63510	26 0445000065 +		27 >111000002	01166

TABLE XI. UPDATMF COMPUTER LISTING (CONT)

USHF				COMP	COMPASS 3.6-498.	80/07/28. 15.39.59.	15.39.59.	PAGE	•
or	9500001050		¥ 7	X1, UPT				DSAF	91
,			9 x 9	K1				DSME	13
. .			5A6	INFILL STEP BECALL	-			# T T T T T T T T T T T T T T T T T T T	æ :
: :	\$11000003	I di.	1 4 5 6 4 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6	Alta	GFT ARGA			FINDSME	. ,
			SAL	1				FINDSMF	4.5
ŝ	0311000037 •		7 N	K1, UP 00T				DSMF	7.7
2			SA5	3 A A A A				2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	•
2	0400000000) A	#O. #ij. i) S.M.F.				DAME	- ?
3.	10611	10040	9 x 6	X I				DSMF	23
	5100000015		SA6	UNIFILE				DSHF	5.4
0,			OP EN	UUTFILE, AL TER, REC	: V LL			DSAF	52
24	5150000103		SAS	ISAVě				FIXERR	e
• •			2 6	#0.40.05#F				DAME	* <
;	100000019	3	586	1.08				DSMF	27
			SBS	K1				USAF	9 2
;	5111000001		1 V S	1.19	GET ARG 2			FINDSAF	9 !
	53210		5 A 2	× 2				FINDSHE	. .
4	0245000004		2 4 7.0	44.45.00				7870	2 =
?			\$ 4 6	M+2				DSMF	32
13	000000c10	7 .	1001 I 8P					DSMF	33
25	5150000103		SA5	ISAVE				FIXERR	2:
7	6 6 0 0 0 0 0 0 0		9 5	A5				PIXER	11
2 %		2	76%	80,80,03nr 2				OSMF	, w
		•	¥	84,85,61				DSMF	36
55	51600000060		SA6	N+2				DSMF	37
;		;	MX7					DSMF	9 6
2	5110000000 x	2	KEADIN	INFILE/SAMPLE/ APGA				FIXERE	? ?
;			1 9 5					FIXERR	13
62	5111000000		SAL	81.2	GET ARGS ADDRESS			FINOMFL	-
			SAZ	K.J.	STORE ERROR CODE	IN ARG3		FINDAFI	~
63	5150000103		\$ 45	ISAVE				FIXERR	-
4	24000000000			A7. B0. B0 BF				DARK	23
6		X OK	\$#\$					FINDSHF	•
			544					FINDSAF	20
ş	2124000005		2 4 5	2+58				FINOSAF	25
	10022		0 - 4	C 4	3330004 1304 133			TECORIT	,
74	01102			* 1 × 1	SET ANGL AUDAESS	I A A B 1	1150 121	FINDRE	٠,
•			9 x 6	•			:	FINDSME	54
			541	81+1	GET ARG2 ADDRESS				S
2	53610		546	х1	STORE NAME INDEX		OF 1ST PRU INTO ARGZ		•
	5150000103 +		SAS	ISAVE				FIXERR	91
1,	040004		SAO	X5				T I KE KR	7 7 5
72	22000000000	u.	274	0				DSAF	2,5
2.2		,	N K					DSMF	43
	20410		1.84	168				OSMF	;
	11714		6 £ 2	57.1x				DSAF	
*2	11/17) X Y	118 80.80.6				DAME	0,7
			,	,					;

TABLE XI. UPDATMF COMPUTER LISTING (CONT)

DSMF					COMPASS 3.6-448.	. 80/07/28. 15.39.59.		PAGE	J
75 101 101 102 103 104 105 57152 57152 57152	5110000012 + 5110000012 + 5150000103 + 53050	27345 27345 27345 101	CL ISAVE ARGA FABY ZINK ZUNK ZUNK	WRITER CLUSE SAS SAS SAS BSS BSS BSS BSS BSS BSS BSS	00 FF 11 E . , RECALL 00 IF 11 E . , RECALL 15 A VE x5 80 . B0 . B5 MF 1 1 12005 12005 65		DOSAF FIXER		200000000000000000000000000000000000000
		1008 CM	433008 CM STARAGE USED MUDEL 73 ASSEMBLY	USED ASSEMBLY	266 STATEMENTS 1.966 SECONDS	28 SYMBOLS 105 REFERENCES			3

TABLE XI. UPDATMF COMPUTER LISTING (CONT)

USAF SYMBOLIC REFEREN	REFERENCE	IABLE.			00	COMPASS 3.6-444.	-6-4-6-	#0/07/23.	80/07/23. 15.34.59.	PAGE
ARGA	104	PRUGRAM	2/44 5	3/33	1 1014					
ฮ	75	PKJGKAN	3129	1 10/5						
263	•	EXTERNALO	3/0>	1/14	4/02	4/03				
USHF	22	PRUGRAMO	2/35 €	2/34 L	3/10	3/16	3/27	3/39	3/51	4/05
	7.5	PROCEARS	2/36 €	27.38	3/52 L	3/57				
INFILE	-	PRUCKAN	2/37 €	3/03 5	3/04	3/33				
108.k	3	EXIERNAL+	37.32				•			
LJR	0	EXTERNAL	3/24							
ISAVE	103	PROGRAM	2/46 S	3/08	3/14	3/25	3/37	3/49	4/03	1 90/t
E	47	PRUSABRO	3/23 \$	3/24 L						
z	26	PRUGARM	3/30 \$	3/32 L						
X O N	65	PROGRAM	15/2	3/40 [
0000	37	PROGRAM	3/07	3/11 6						
à	3.6	PRUGRAN	3/01	3/05 L						
OUTFILE	15	PRUGAAN	2/30 €	3/12 S	3/13	3/25	10/4	4/05		
ş	54	PROGRAMO	3/22	3/28 L						
*	*	PRUGRAM	27.55	3/17 €						
SCP-2N	•		3/05 0	3/05	3/14 0	3/14	4/02 0	4/02	4/03 0	4/03
SCP-4KCL	-		3/05 0	3/05	3/14 0	3/14	4/02 0	4/02	4/03 D	4/03
SCP-22	150		3/04 0	3/05	3/13 0	3/14	4/02 0	4/03		
LABX	105	PROGRAM	2/34	3/40	1 80/4					
IABY	23452	PROGRAM	5/34	1 60/4						
ZANK	•	OUTDATA	2/39	2/43 L						
7NI7	27017	PROGRAM	2/38	2/38	2/38	2/38	4/10 L			
ZUNK	0	INDATA	2/38	2/41 6						
ZUNK	57120	PROGRAM	2/39	2/39	2/39	2/39	4/11 L			

SECTION 4 - PROGRAM NTYPGEN [11]

4.1 PURPOSE

Program NTYPGEN [1] is used to (1) determine what needed information is missing from an existing net type code master file or (2) update an existing file by adding new data records or modifying data records presently contained in the master net type code file.

4.2 PRINCIPAL FUNCTIONS

Program NTYPGEN, shown in figure 16, has as input a program control card, net type code update cards or the unique net data file from CONVERT 1, and the master net type code file. Depending upon the type of input, the program checks the unique net file against the master file and outputs printed information identifying net types that are missing or contain discrepancies in the master net type file, or it produces an updated master net type code file for input to EDIT 8. The principal functions of program NTYPGEN are as follows:

- a. Option 1 identifies missing or erroneous data in an existing master net type code file.
- (1) Compares net type numbers in the unique net data file with net type numbers in the master net type code file.
- (2) Outputs a list of any net type numbers that are missing in the master file.
- (3) Compares net names in the unique net file with net names in the master file.
- (4) Outputs a list of net names in the unique net file that do not match net names in the master net type code file.
 - b. Option 2 updates an existing master net type code file.
- (1) Inserts, in proper sequence, data contained in update cards for new net types.
 - (2) Deletes data records for obsolete net types.
 - (3) Modifies net type codes in existing net type code records.
- (4) Outputs an updated master net type code file, a listing of the new file in net number sort, and a listing of the new file in net type code sort.

4.3 INPUT/OUTPUT DESCRIPTION

Input to program NTYPGEN, depending upon the type of run, consists of update data cards or the unique net data file, along with the master

net type code file. Output includes either a list of missing or erroneous net types or two listings of the updated file--one sorted in ascending order on net number and one sorted in ascending order on net type code.

4.3.1 Input Format

The format of input data for program NTYPGEN is given in the following figures and tables:

- a. Program control card, figure 17, page 4-5.
- b. Update data card (16), figure 18, page 4-6.
- c. Unique net data file (3), table XII, page 4-8.
- d. Master net type code file (15), table XIII, page 4-10.

4.3.2 Output Format

Format for the updated master net type code file created by program NTYPGEN is given in table XIII, page 4-10.

4.4 PROCESS DESCRIPTION

Program NTYPGEN is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer and requires 100000_8 words of central memory for compilation and execution.

- a. $\underline{\text{Option 1}}$ identifies missing or erroneous data in an existing master net type code file.
- (1) A net type record is read from the unique net data file and compared to the master net type code file. If a match is not found, the unique net record is written to the list of missing net types. If a match is found, the net names for the matching records are compared. If they agree, processing continues to the next record on the unique net file. If they do not agree, both net names are output to the list of net name discrepancies and the program proceeds to the next unique net data record.
- (2) This process continues until the entire unique net data file has been checked.
 - b. Option 2 updates an existing master net type code file.
- (1) An update data card is read and matched for net type number against the old master net type code file. If no match is found, the update record is inserted in proper sequence as an addition to the updated master net type code file. If a match is found and the net type code field

of the update card is blank, the existing record is deleted from the updated file. If the net type code field is not blank, the data on the update card replace the data in the existing record when output to the updated file.

(2) This process is repeated until both the update card file and the old master file have been completed and a new master net type code file is produced.

4.5 PROGRAM OPERATION

Figure 19, page 4-11, is a listing of all system and UPDATE control cards necessary to execute NTYPGEN for a typical computer run.

4.6 LIMITATIONS

There are no limitations in program NTYPGEN.

4.7 RUNNING TIME

Running time is estimated at 1 minute per 100 update cards.

4.8 COMPUTER PROGRAM LISTING

A complete computer listing of program NTYPGEN is shown in table XIV, page 4-12, together with associated subroutines OUTFILE and MATCH, annotated to aid in the understanding of the program functioning.

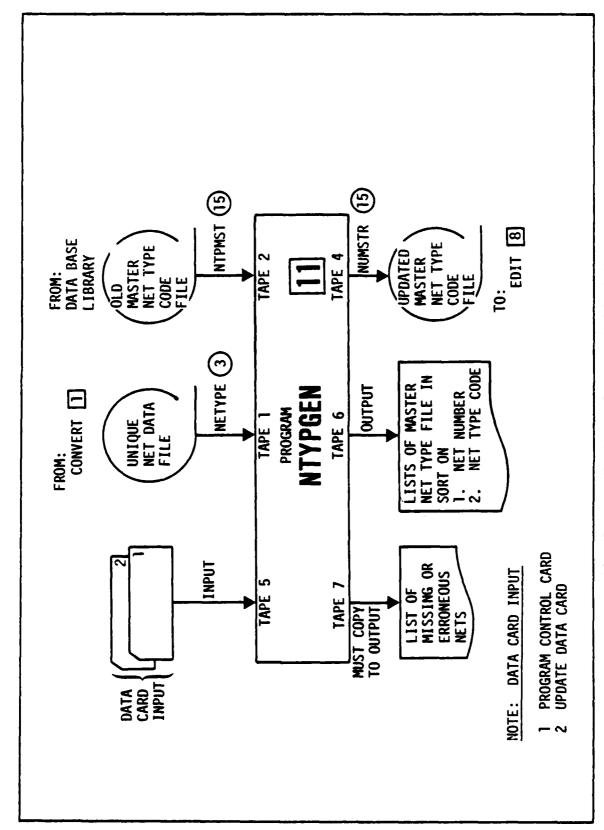


Figure 16. Program NTYPGEN, functional block diagram.

FIELD DESCRIPTION	Security classification of data to be included in page headings.	Current date to be included in page headings.	PRINT ONLY. Field must be as shown if the program is run only to print the existing master net type code file.
MNEMONIC	CLASS1, CLASS2	DATE	IPRNT
BCD FORMAT	2A10	A10	A10
CARD COL	1-20	21–30	31-40
FIELD NO.	-	7	m

Figure 17. NTYPGEN input, program control card.

FIELD DESCRIPTION The first 6 digits of the net number.	The lower boundary of the troop range associated with the net number for this net type code.	The upper boundary of the troop range associated with the net number for this net type code.	The net name associated with the net number for this net type code.	Net type code.	To delete, fill in fields 1-3. To add new entry, fill in fields 1-5. To modify an existing entry, fill in fields 1-3 and 4 or 5, or both. The low and high troop numbers are omitted if a given net type code applies to all troops for one net type number.
MIEMONIC	LTRP	MTRP	NAME(1),(2), (3)	NTYPE	ll in fields 1-3. try, fill in fields 1-5. existing entry, fill in filgh troop numbers are omit
BCD FORMAT 16	14	14	2A10,A8	R6	To delete, fill in fields 1-3. To add new entry, fill in fields 1- To modify an existing entry, fill i The low and high troop numbers are all troops for one net type number.
CARD COL 1-6	7-10	12-15	16-43	46-51	To delete, fi. To add new en To modify an The low and h
FIELD NO.	2	e	4	S	NOTES: 1. 2. 3.

Figure 18. NTYPGEN input, update data card (16)

File Descri	.ption:_[Inique	Net D	ata	File	(3)
File Name:_	NETYPE					Logical Unit: 1
Mode/Type:_	BCD			Re	ecord	Length: 43 characters
Origin:	CONVERT	1		_		
Used By:	NTYPGEN	11				

TABLE XII. UNIQUE NET DATA FILE (3)

Remarks	A unique 10-digit code assigned to each net. Digits 1-6 indicate the net type number and 7-10 indicate the troop number of the net control station (NCS).	Blank	Standard name assigned to this net type; left-justified.	Blank	
Field Position	1-10	11-15	16-43	44~50	
Field Size	10	رد	28	7	
Data Description	Net number		Net name		

File Descrip	ption: Master Net Type Code	e File (15)	
File Name:_	NTPMST/NUMSTR	Logical Unit: 2/4	
Mode/Type:	BCD Record	Length: 51 characters	
Origin:	Data base file maintained l	by NTYPGEN [1]	
Used By:	NTYPGEN 11 ; EDIT 8		
Note: This	file is sorted in ascending	g order on columns 1-10.	

TABLE XIII. MASTER NET TYPE CODE FILE (15)

Data Description	Field Size	Field Position	Remarks
Net type number	9	1-6	The first 6 digits of the net number.
Low troop number	4	7-10	The lower boundary of the troop range associated with the net number for this net type code.
	-	11	Blank
High troop number	4	12-15	The upper boundary of the troop range associated with the net number for this net type code.
Net name	28	16-43	The net name associated with the net number for this net type code.
	2	44-45	Blank
Net type code	9	46-51	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
NOTE: The low and high trocone net type number.	op numbers	are omitted	The low and high troop numbers are omitted if given net type code applies to all troops for one net type number.

LLUYD UPOATE NETTYPE	[TPGEN] Ta.R-UL.NA)	EPIGE(NIPNST-DLOCPSS,NUMSTR-NTPCPSS/PN-DATA,R-DL,NA) cwinditape.?) OPYCFITAPE7,DUTPUT) A1LIST(LO-F,PN-DATA,R-DL,NA) -H	NTFGEN CARD 27NOV78 INSERT NEITYPE UPDATE CARDS HERE CARD
NITPGEN.13777. USERIOO USER ID +0) CHARGE[MAUGO.N) CUMMENT. CUMMENT. CUMMENT.	COMMENT. GETTELPCKU-EDIPCKU/NA) MAPTERATI UPDATETPEUFOKU, D) UALUADIEOIPCKU) FINILR-3,PL->>>>>> D-NTYPGEN) GETMITPRST-NIPCPSS/PN-DATA,R-DL,NA)	REPLACE (NIPNST-OLDCPSS, NUMS TR Rewind (TAPL?) COPYCF (TAPE7, OUTPUT) CALLIST (LOFF, PN-DATA, R-DL, NA) 7-9-9 CARD	*COMPILE NITPGEN 7-4-4 CARD Z7MDV78 4/ INSERT NETTYPE UP 7-8-9 CARD 6-7-8-9 CARD
202222	2 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		(52) (52) (52) (52) (52)

PAGE

_	PRUGRAM NITEGENINE ITERSTANDASIR, INPUTADOTATOTE TAPES.	070EC76	٦,
•	COMPUS /CONTEXY/ICOUNTIES/NIN/NOUT	NIYPGEN	• •
	CUMMUN INDATAINETNULTIVETRP(7), MIRP(7), NAME(3,7), NITPE(7)	NIYPGEN	•
	LOGICAL EOD, EUL	NIYPGEN	9
	INTEGER CHPY, DELETE, REPLACE, SPLIT	NIVECEN	~
	INTEGER CLASSIACLASSZADATERATERADRICA	NE USYS 2	-
	DATA HEADRIIOHINET TYPE , LONINET NUMBE, LOHCUDE SURTI, LOHR SURTI	NIYPGEN	•
-	2		2
	DATA COPY, INSERT, DELETE, NUENTRY, REPLACE, MODIFY, SPLIT, DATAER, MODKET		=
-	1/1020304050670409/	NIYPGEN	21
	DATA MITPLINE INDILLATOR	MIYPGEN	13
	NAMELL,7)=10:10 ND ENTRY	NIYPGEN	1,
	NAME (2,7)=10H THESE NET	RIYPGEN	15
	NAME (3,7) = BMS •	NIVPGEN	16
	NITPEL=6R	NTYPGEN	_
	NIVPE (7) • 10H	NIYPGEN	9 7
	014771207112	NIYPGEN	51
	6.00 - 6.00 - 6.	MIVPER	00
	100001741107	NUMBER	2 5
90,00	TATIONAL CHARLES AND SOCIETY A		
10001	CORDAILING CONTRACT OF NET MANG BISHALFAY.		3 -
		10118/8	→ .
	IF CC 31-40 - PRINT ONLY THEN SKIP UPDATE SECTION	10FEB78	~
		10FEB78	m
	REAULS.10005)CLASS1.CLASS2.DAIE.IPRNI	10FEB78	
10005	FORMATCAALOL	10FE 878	•
	THE STATE OF THE DESTRICT OF THE SOLITON OF THE STATE OF THE SOLITON OF THE STATE OF THE SOLITON OF THE STATE	10FFB7B	٥
		NIYDGEN	
	TABLE STATE OF A CONTRACT OF A	2000	
		2000	2 6
			,
	CALL STREET LIVING FULSELATE, FLUBULOFF FAR	Na or Car	97
	CALL SMEND	MITPERM	62
		NITPGEN	30
2	1C DUN F (1) + 0	NIYPGEN	3
		NIYPGEN	32
J		NIVEGEN	2
		TA DO LA	7 6
, .		MINOCH	, ,
	:	230474	2
٠	EN 14	Z 22 Z	9
J	FROM OLD MASTERFILE IF K=2	NITPGER	37
J	UPDATES (FRUM INPUT) IF X-3	NIYPGEN	36
U	91 9119	NTYPGER	36
L	_	MIYPGFN	05
. د	ALTERNATION OF THE PROPERTY OF	MINDA	
, (•		: :
، و			y (
J		MINDER	£ \$
u		NIYPGEN	**
20	20 KEAD (K. 10020) REIND(K.). IRP(K.). HIRP(K.). NAME(1.K.). NAME(2.K.). NAME(3	NIYPGEN	45
	× × × × × × × × × × × × × × × × × × ×	NIYPGEN	4
10020	10020 FORMAT (14.14.14.74.24.04)	NEVPOR	7.7
	07 17 17 17 17 17 17 17 17 17 17 17 17 17	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	3
01		7 0 0 2 2	2 0
2	_	2 L L L	,
	-	14101.16	
9		NIAPGEN	20
	JF(K.EQ.3) HJP-NUP+1	NIYPGER	5 S
Ç		19.1111.76	0

PROGRAM AIYPGEN 73/74 OPT-1	•	FIN 4.8+496	BO/07/24. 13.58.02	13.58.02
IF (LIRPIN) GT. HIRPIN) IF (NE THO(2) . LT. NE THUE 3) IF (NE THO(2) . GT. NE THUE 3)	60 TU 190 1 GU TU 190 1 GU TU 190		NIYPGEN	2 2 2 2 2 4
IF(LIRP(2) -EQ. IF(LIRP(3) -EQ. IF(LIRP(3) -EQ. IF(LIRP(3) -EQ. IF(LIRP(3) -EQ.			N LAPGEN N LAPGEN N LAPGEN	, w w w d
	ND.ATRP(3).GE.ATRP(2)) G. 60 TO 250	0 10 200	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
100 K*2 IF (NETNJ??).GT.1000000) GJ TD 300 IF (NL FND!?).NE.U) CD TD 120 GJ TU 20 L20 IF (MDUKEY.EJ.SPLIT) GD TD 180 IF (MDUKEY.EJ.SPLIT) GJ TO 260	120 120 10 180 10 260			\$ 9 9 9 0 P
CALL DUFFILE(COPY,2,2) 60 10 300 150 K-3 16 K-3 16 K-3 16 CALL DUFFILE(INSERF,3,3)	60 TO 230		N N N N N N N N N N N N N N N N N N N	22222
6U 10 300 170 IF (NIYPE (3).EQ.NIYPBL) 6D 10 MODKE Y-NUDIFY LINE(A).LIYPE(2)	60 10 230		Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	22 22 26 26 26 26 26 26 26 26 26 26 26 2
LINFICS HIRP(2) UN TO 150 180 CALL DUTFILE(SPLII,2,6)				0 4 V M 4 5
MUDARY-9 GU 10 300 190 CALL UNIFILE (DATALR,K,K) GD 10 20 200 1F (MIYPE (3), E).NIYP&L) GU 10) Gu 10 220			. 4 c c c c
	CALL GUTFILE(REPLACE.3.2) KE-3 NETMUL2)=0 NETMUL2)=0 UD 10 300 UD 10 300 IFILIMP(2)-EQ.LIRP(3).A40.MIRP(2).EQ.MIRP(3)) GO TO IFILIMP(2)-NE.LIRP(3).A40.MIRP(2).EQ.MIRP(3)) GO TO IFILIMP(6)-EQ.LIRP(3).AMU.MIRP(2).EQ.MIRP(3)) GO TO K-3 CALL UUFFILE(MULMIRY,3.3)	0 10 280	A A A B C C C C C C C C C C C C C C C C	
	60 TO 230			100 100 100 100 100 100 100 100
				NIYPGEN NIYPGEN NIYPGEN NIYPGEN NIYPGEN NIYPGEN

PAGE

	PROUGHAN NITPGEN 73/74 OPT-1	4.8.499	UO/07/28. 13.58.02	13.58.02
115	~ *		NIYPGEN	111
	NETAD(2) • C		MIYPGEN	112
	6.0 10 20		MINDCHM	
			2000	
	2		200111	
750			N A P G F N	911
			N - A B C F N	
	#IXF(2)=LIAP(3)=1		MINER	
	CALL OUTFILE(SPLIF,2,2)		NIVPGEN	
	300 If (NEINILL). LE. NEINDIK)) GO 10 340		NIYPGEN	
125	IFTNETNUTAL CO CO TO 320		MIYPGEN	
	25-78-18-18-18-18-18-18-18-18-18-18-18-18-18		MIYPGER	122
	STOLETEN FOLKE TO THE STOLET STOLET STOLET		MIXPORM	
	THE STATE OF THE S		200	126
			22000	
6				
2		J MANE 1 30 1 J	N N N N N N N N N N N N N N N N N N N	
	LUSCO TERMS IN THE SAME ALCO ALCO ALCO ALCO ALCO ALCO ALCO ALCO		2 - A - C - C - C - C - C - C - C - C - C	
			NIAPGEN	
	330 NE TND(1) *1000001		NIYPGEN	
	G1 f0 300		NIYPORK	130
135	340 IF (NEIND(II) . EQ. NEIND(K)) GO TO 360		NIYPGEN	
			NIVPGEN	
			NIVEGEN	
			M 1 V D C D M	
	TABLE OF THE TABLE			
•			N I A L C L L	
140	LERPSAVILTRP(6)		NIVEGEN	
	LIMP(6)=LIMP(2)		RITEGEN	
	LTRP(2)=LFRPSAV		NIVPGEN	
	X=3		NIYPGEN	
	20 10 300		MIYPGEN	
145	360 IF(LIMP(K).NE.O) 60 TO 370		RITPGEN	
	NE GNO(2012ACA)		NIYPGEN	
	NAME (1,5) - NAME (1,5)		NIYPGEN	143
	NAME (2.5) - NAME (2.5)		NIYPGEN	
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5			NIVEGEN	160
	60 10 20		N 4 S G A M	2.51
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175 LASIN=0 10910 FPAGE-1 MRITE (5-10910) CLAS 10910 FURMAT (+1+-6005-2410 1110//* Nef NUMBER TI 20/1 16 EUD -15-920 915 MRITE (5-10915) 10915 FURMAT (+ *) 10920 FURMAT (+ *) 10920 FURMAT (16-6) 110 C CHECK IF PRINT JNLY 930 FFIFPMINE-100PPHIN C CHECK IF PRINT JNLY 930 FFIFPMINE-100PPHIN 115 FFIEDIG-EQ-1R1) GU 16 11201G-EQ-1R2) GU 16 11201G-EQ-1R3) GU	909 IASK-IH LASIN-0 910 IPAGE-IPAGE-1 910 IPAGE-IPAGE-1 11010 IPAGE-IPAGE-1 11010 IPAGE-IPAGE-1 111011 INFO RANJE CODE FILE **2A10* AS OF **AIO*60x* 111011 INFO RANJE RANJE NET NAME **BX,* NET NYPE 2**INFO 935 I-1,50 914 IF(EUD) 915,920 915 FURNAT (***) 60 TO 935 920 READ(#*10920)NETNO,[2DIG,IREST 110420 FORMAT(16,4%*,3A10*RI,RI,R4) 1F(EUG) 110,955,930 925 EUD-T.	10FE 878	16 164 164
	IEAUR(J), DATE, IPAGE 6,2alo+ as Of +,alo+ Name +,bx,+ nei	10FE 878	164
916 10910 10910 10910 10910 10910 10910 10910 10910 10910 10910	EADRÍJIODATE, IPAGE •,2410• AS OF •,410» Name •,8%,• Net		164 164
10910 1 10910 1 10915 1 10915 1 10920 1 10920	IFAUR(J) DAFE, IPAGE *,2A10* AS OF *,A10, NAME *,BX,* NET NAME *,BX,* NET	NTYPGEN	9 9
	NAME 4.8X,4 NET		
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2 1001 1001 1006 1006 1006 1006 1006 1006)		94
10,010 10	20 [5] NETMO-12016-1REST 1X544-3A10-R1-R49		94
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10015 920 100420 930 625 930	NE TND. IZDIG.1REST 118.44.3A10.81.RI.R4) 5.930	NTYPGEN	171
926 926 627 930 930	NETND.[2DIG.]REST 1x, kt, 3a10. Ri. Ri. Kt) 6930	MIYPGEN	172
0.0401 0.0401 0.0401 0.0401 0.0401	.NETND. ZDIG. REST Xskt. 3A O.Rl. Rl. kt staggo	NTVPGEN	173
10920 926 	. Xº K4, 3A10, R1, R1, R4, B 5, 930	10FE878	91
930	•• 930	10FE 878	6
626 066 		10FE878	02
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	ш	10FE878	\$2
	141) 60 10 933	10Ft 87d	92
	50 TO	10FE 878	27
	60 10	10FE 878	28
	0.09	10FEB78	62
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	63	10FEB78	33
1F(12016.EQ.1R9)	189) 60 FO 933	10FEB78	3,4
_		10FEB78	32
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(1)CZL BN=NLSY1		10FEB78	4.1
934 ARITE(6,10730	4R I TE (6, 10930) NE TNO, 12010, (REST, 185K	1956878	42
	FURMAT (4x, 16, 5x, R4, +-+, R4, 2x, 2A10, AB, 2x, R1, R1, R4, 4x, A1)	10FE 878	43
STATE OF THE		NIYPGEN	181
	WEILE (6,10935) IPAGE,CLASSI,CLASS2	NIVEGEN	791
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: 3		NIYPGEN	136
		NIYPGEN	187
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25.7	OX	ACCURACY OF THE PROPERTY OF TH		NIVPEEN	557	
	1150	SHOUND (COL)		NIYPGEN	190	
	-14.	THE TENNEST PROPERTY OF THE PR		NITPGEN	161	
	115			NIYPGEN	192	
235	7767			NIYPGEN	193	
,				NIYPUEN	161	
	2127			MIYPGEN	195	
	F 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			10FEB78	55	
	7.4304	1		10fcB7d	26	
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				NIYPGEN	161	
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				MIYPGEN	199	
245		- n		NTYPGEN	200	
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				NTYPGEN	202	
				NIYPGEN	203	

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TABLE XIV. NTYPGEN COMPUTER LISTING (CONT)

_	-		NIYPGEN	250	
	_	CUMMUN /NDATA/NETNU(7),LTKP(/),HTKP(7),NAME(3,7),NTYPE(7)	HIYPGEN	152	
	7		NIYPGEN	252	
	ت		NIYPGEN	253	
•	_		MIYPOLIN	254	
•	_		MEYPERM	255	
		GU 10 150	RIVEGER	256	
	~		NTYPGEN	257	
		IF (NIVE (K).NE.NETIPS) GO TO 100	NIVPGEN	258	
91	وي		NIYPGEN	652	
	.		NIYPUEN	260	
	~	N.EJ.2) 60 10 20	NIYPGEN	261	
	E		NIVPGEN	292	
	و		NIYPGEN	263	
5	20	.NE.NETS) GO TU 150	NTYPGEN	564	
	9		NIYPGEN	592	
		IF(NAME(I,K).NE.NAME(I,1)) GO TO 40	NIYPGEN	992	
	2		NIVPGEN	267	
	Z	**C171)**	RIVPGER	268	
0.		RE LURN	RIYPGEN	569	
	9		N L YP C L	270	
	۰ د		N T Y P G F N	271	
		INTIME MARKED IN THE BELLE OF		7/7	
	2		2000	573	
2	•		N T T T T T T T T T T T T T T T T T T T	117	
	- 3			326	
	K 4			277	
	5	ARL LOSS		278	
5		CO C		330	
2	- 2	11-11-11-11-11-11-11-11-11-11-11-11-11-	N T T O T T	2 2 2	
	•	4129911142709971427	N 4 70 X EX	2:1	
			NIYOCEN	242	
	, 2		MIYPER	283	
51	70 C		NITPGEN	294	
			NIYPGEM	295	
	9 4	RETURN	NIYPGEN	236	
	9	NOTALR = NOTAER + 1	NIYPGEN	237	
		KETURN	NIVPGEN	288	
. 0	1001	100 IF(M.LE.1) GO 10 115	NTTPGFN	593	
	•	WRITE (7,10100) NETS-LTRPS(1), MTRPS(1), (NAMES(1,1), I-1,3), NCT(1),	NIYPGEN	290	
•	1	TANA TANA TANA TANA TANA TANA TANA TANA	N 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1/2	
		FURTHER OF ME NAME HISMAICH FUR MET MUNBER **10.ZIS.ZX:3AIU*14.ZX;	200	202	
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		107111 - 4-07711 - 4-0771 - 4-	MINOCALM	202	
		15(ASG4,63,23G) TO 170	u70FC76		
		00 120 1-1-3	070FC76	1	
	Z		NIYPOLN	300	
7	120 C	CONTINUE	NITPGEN	301	
	_	LIRPS(1) -10000	MITPLEN	305	
	-	MIKPS(1)=0	NIVPGEN	303	
55	Z	1.2	NIYPGEN	304	
	~	NETS-NETNOTA)	NITPGEN	305	
	Z	NETIPS-217PE(A)	MITPGER	306	
			į,		

TABLE XIV. NTYPGEN COMPUTER LISTING (CONT)

13.56.02	307 308 306 310		321 321 321 322	8 4 4 2 8 3 8 3 8 3 8 8 8 8 8 8 8 8 8 8 8 8 8
40/07/28. 13.56.02		NIYPGEN NIYPGEN NIYPGEN NIYPGEN	NIYPGEN NIYPGEN NIYPGEN NIYPGEN	NI YPGEN NI YPGEN NI YPGEN NI YPGEN
FIN 4.8+498	NOTHER-0 60 10 46 IF (M. EQ. 0) 60 TO 160 MATTE (7:10150) NETS.LTRPS(1): (NAMES([:11:1:1:3):NCT(1):	• NU MET IYPE FOK MET NUMBER • 16,215,2x,3A1 NIYPGEN NIYPGEN NIYPGEN NIYPGEN NIYPGEN NIYPGEN NIYPGEN NIYPGEN NIYPGEN		
.TCH 73/74 UPT-1	NCT(1) - 0 NOTHEM-0 GU 10 46 150 IF (N-EQ.0) GU TO 160 WHITE (7-10150) NETS-LERPS((6H 60000) (-110) (-2) 30 f0 101 (-1-0) 60 f0 11	NAMES(1,1) = NAME(1,1) 180 CONTINUE LTRPS(1) = LTRP(1) MIPPS(1) = LTRP(1)	N*1 NETS-NETMO(1) NETIPS-O NOTHER-O RETURN ENU
SUBRUUTINE MATCH	09	101	02	\$2

SECTION 5 - PROGRAM ANTENNA 12

5.1 PURPOSE

Program ANTENNA 12 ascertains whether antenna data are missing from the master general antenna data file and outputs a file of required antenna data for use in later processing.

5.2 PRINCIPAL FUNCTIONS

Program ANTENNA, shown in figure 20, uses as input the antenna code summary file and the master general antenna data file. It determines if any needed data are missing from the master file and outputs the required general antenna data file. The principal functions of program ANTENNA are as follows:

- a. Searches master general antenna data file for each antenna code in the deployment summary file.
 - b. Outputs a list of any missing antenna codes.
- c. Outputs a file of required general antenna data for later processing.

5.3 INPUT/OUTPUT DESCRIPTION

Input to program ANTENNA includes a program control card, the antenna code summary file, and the master general antenna data file. Output consists of the required general antenna data file and a listing of any antenna codes not found in the master file.

5.3.1 Input Format

The format of input data is as follows:

- a. Program control card, figure 21, page 5-4.
- b. Antenna code summary file (12), table XV, page 5-6.
- c. Master general antenna data file 17, table XVI, page 5-8.

5.3.2 Output Format

The format of the required general antenna data file (18) is shown in table XVII, page 5-12.

5.4 PROCESS DESCRIPTION

a. Program ANTENNA is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer and requires 100000_8 words of central memory for compilation and execution.

- b. The program control card, read from INPUT, contains the security classification of the data and a descriptive title to be included in page headings for output.
- c. After initializing, the program reads an antenna code from the deployment summary file and checks to see if the code is presently in the master general antenna data base file. If the code is missing, a message is written to output, and processing continues to the next antenna code. If the code is found, the matching data record from the master file is output to the required general antenna data file. This process is continued until all antenna codes in the deployment summary have been processed.

5.5 PROGRAM OPERATION

Figure 22, page 5-14, is a listing of all system and UPDATE control cards necessary to execute ANTENNA for a typical computer run,

5.6 LIMITATIONS

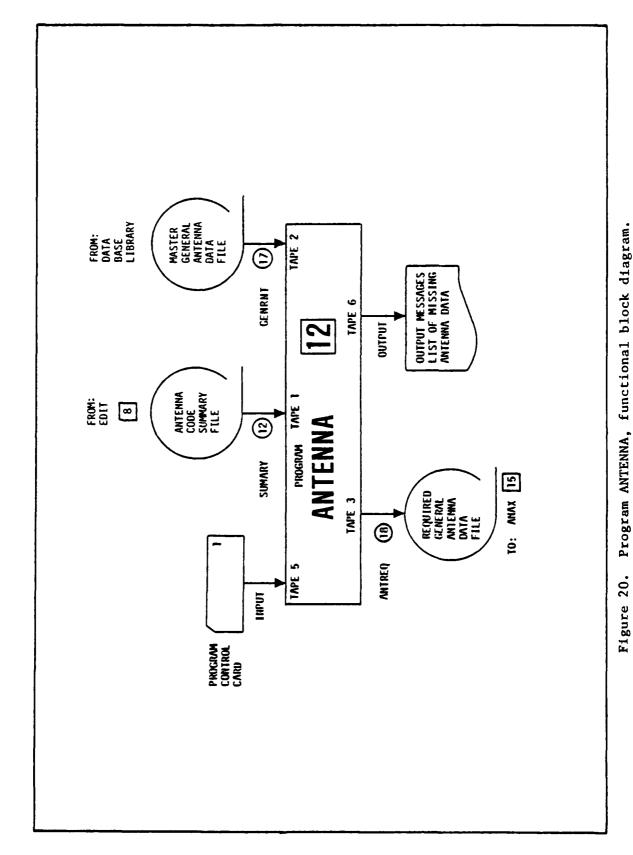
There are no program limitations in program ANTENNA.

5.7 RUNNING TIME

Running time is estimated at 1 minute per 100 input antenna codes.

5.8 COMPUTER PROGRAM LISTING

Table XVIII, page 5-16, contains a complete computer listing for program ANTENNA, annotated to aid in the understanding of the program functioning.



5-3

FIELD DESCRIPTION	Security classification.	Title to be used in page headings for output.				
MNEMONIC	KLASS	TITLE				
BCD FORMAT	A10	2A10				
CARD COL	1-10	11-30				
FIELD NO. CARD COL	1	2				

Figure 21. ANTENNA input, program control card.

File Descri	ption: Antenna	Summary Data File (12)
File Name:_	SUMARY	Logical Unit: 1
Mode/Type:_	BCD	Record Length: 5 characters
Origin:	EDIT 8	
Used By:	ANTENNA 12	

TABLE XV. ANTENNA SUMMARY DATA FILE (12)

Remarks	Blank	A 3-digit code assigned to each antenna type.	A 1-character alphabetic code to indicate type of polarization: H = horizontal, V = vertical, A = +450, D = -450, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.
Field	1	2-4	\$
Field	1	£	П
Data Description		Antenna code	Antenna polarization

File Descr	:iption:	Master General Antenna Data File (17)
File Name:	GENRNT	Logical Unit: 2
Mode/Type:	BCD	Record Length: 72 characters
Origin:	Data bas	e file maintained by GANTUP 13
Used Bv:	ANTENNA	12; GANTUP [13]

TABLE XVI. MASTER GENERAL ANTENNA DATA FILE (17)

Data Description	Field Size	Field Position	Remarks
Antenna code	ဧ	1-3	A 3-digit code assigned to each antenna type.
Antenna polarization	г	4	A 1-character alphabetic code to indicate type of polarization: H = horizontal, V = vertical, A = +45°, D = -45°, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.
	7	\$	Blank
Frequency	80	6-13	Frequency (in kHz) down to which this set of data applies.
		14	Blank
Maximum antenna gain	7	15-18	Maximum possible gain for this antenna in tenths of a dB.
	-	19	Blank
Antenna nomenclature	15	20-34	Descriptive name of this antenna.
Security code	1	35	<pre>0 = unclassified, l = confidential, 2 = secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Directionality code	r-I	36	A 1-character code to indicate whether or not the antenna is directional: D = directional, N = nondirectional.

TABLE XVI. MASTER GENERAL ANTENNA DATA FILE (17) (CONT)

Remarks	Length of antenna in thousandths of a foot, if applicable; otherwise, blank.	Radius of antenna in thousandths of an inch, if applicable; otherwise, blank.	General description of type of antenna.						
Field Position	37-42	43-46	47-72						
Field Size	9	7	26						
Data Description	Antenna length	Antenna radius	Antenna description	-	-				

INTENTIONALLY BLANK

File Desc	ription: Required Ge	eneral Antenna Data File (18)
File Name	:ANTREQ	Logical Unit: 3
Mode/Type	:BCD	Record Length: 72 characters
Origin:	ANTENNA 12	
Used By:_	ANAX [15]	
Note: Th	nis file is sorted in n descending order on	a ascending order on columns 1-4 and a columns 6-13.

5-11

TABLE XVII. REQUIRED GENERAL ANTENNA DATA FILE (18)

Pata Description Si Antenna code			
	Field Size	Field Position	Remarks
	· E	1-3	A 3-digit code assigned to each antenna type.
Antenna polarization	7	4	A 1-character alphabetic code to indicate type of polarization: $II = horizontal$, $V = vertical$, $A = +45^{O}$, $D = -45^{O}$, $E = elliptical$, $C = circular$, $B = vertical/horizontal$, or another alphabetic character to represent any other unique polarization.
		S	Blank
Frequency	∞	6-13	Frequency (in kHz) down to which this set of data applies.
		14	Blank
Maximum antenna gain 4	4	15-18	Maximum possible gain for this antenna in tenths of a dB.
1		19	Blank
Antenna nomenclature 15	15	20-34	Descriptive name of this antenna.
Security code	-	35	<pre>0 = unclassified, l = confidential, 2 = secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Directionality code	1	36	A 1-character code to indicate whether or not the antenna is directional: $D = \text{directional}$, N = nondirectional.

TABLE XVII. REQUIRED GENERAL ANTENNA DATA FILE (18) (CONT)

-1	Length of antenna in thousandths of a foot, if applicable; otherwise, blank.	Radius of antenna in thousandths of an inch, if applicable; otherwise, blank.	General description of type of antenna.	
Field	37-42	43-46	47-72	
Field	9	4	26	
Data Decertorion	Antenna length	Antenna radius	Antenna description	

```
LLOYD MISEGIP/OVERLAP/ANTENNA S
                                                                                                                                                                                                                                                                                                     MEMINDIEDJUNJSUJARI)
*** JET INDIAECT ACCESS SECRET EQUIPMENT CLASS DATABASE FILE
*** JET INDIRECT ACCESS SECRET GENERAL ANTENNA DATABASE FILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TASK CHANGES FOR MISEOIP (IF ANY)
TASK CHANGES FOR INVENTAP (IF ANY)
TASK CHANGES FOR ANTENNA (IF ANY)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LABELIREGDATA, WP13-4, MT, D-PE, L-TASKNAME)
COPYCFIEGRES, WESDATA)
COPYCFIAMATKS, WESDATA)
COPYCFIAMIRES, WESDATA)
                                                                                                                                                                                                  FIGURES PL-9999999 B-MISEOID)
FIGURES PL-9999999 B-MISEOID)
FIGURES PL-99999999 B-MISEOID)
LABEL (EGSHWYN RAPO-R-MISOPE-L-IASKMAME)
CUPYCF (EGSHWYN SUMARY)
                                                         COMMENT. TASK MANE
COMMENT. MISEJIP/OVERLAP/ANTENNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MISCUIP, OVERLAP, ANTENNA
                                                                                                                RESDURC (PE+1,DL+1)
GET (CALSUM+CLSMRTU/UN+JIM,NA)
GET (EQIPCKU+EQIPCKU/NA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 UNLOÃO (114, TAPE 3, TAPE4, CALSUM)
COPYSEF (AMATRA, OUTPUT)
REXIND(AMATRA)
                                                                                                   WSNIE USMRY-AAAA, RE OOATA-BBBB)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CUPYSBF (GENRAL, OUTPUT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         UNLUAD (SUMANY, GENANT)
CUPYSBF (ANTRL 3, DUTPUT)
                                                                                                                                                                                                                                                                                                                                                               CUPYSBF (EQIPS, UUTPUT)
UNLOAD (EQIPS, EOSUM)
COPYSBF (EQREO, OUTPUT)
MISEGIP, I3777.
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Figure 22. ANTENNA (MISEQIP/OVERLAP/ANTENNA) control card listing.

		OSGNOXF						
CAMD	DEPLOYED		CAND	IRUE	CARO	TASK NAME	CARD	CARD
7-6-9	SECHET	Br.	7-8-6	SECRET	6-8-2	SECHET	6-8-2	6-9-1-9
(15)	(\$2)	(53)	(54)	(55)	195)	125)	(98)	(21)

TABLE XVIII. ANTENNA COMPUTER LISTING

PAGE

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PROGRAM ANTENNA 73/74 UPT-1

:				IABLE AVILL.	ANTENNA COMPUTER LISTING (CONT)	(CONT)		
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SECTION 6 - PROGRAM GANTUP 13

6.1 PURPOSE

Program GANTUP 13 adds new data records or modifies data records presently contained in the master general antenna data file.

6.2 PRINCIPAL FUNCTIONS

Program GANTUP, shown in figure 23, accepts as input the old master general antenna data file, along with general antenna update data cards, and outputs an updated master general antenna data file for use in program ANTENNA [12]. The main functions of program GANTUP are as follows:

- a. Inserts, in proper sequence, data contained in update cards for new general antennas.
 - b. Deletes data records for old general antennas.
 - c. Modifies data fields in existing general antenna records.
- d. Prints updates, errors, and a listing of the updated master general antenna data file.

6.3 INPUT/OUTPUT DESCRIPTION

Input to program GANTUP includes a program control card, update data cards, and the old master general antenna data file. Output is the updated master general antenna data file for input to program ANTENNA [12].

6.3.1 Input Format

Formats for input to program GANTUP are given in the following figures and table:

- a. Program control card, figure 24, page 6-4.
- b. Update data card (19), figure 25, page 6-5.
- c. Master general antenna data file (17), table XIX, page 6-8.

6.3.2 Output Format

The format of the updated master general antenna data file created by program GANTUP is given in table XIX.

6.4 PROCESS DESCRIPTION

a. Program GANTUP is written in COBOL for processing on the CDC CYBER 172 computer and requires $60000_{\rm g}$ words of central memory for execution.

- b. The update data card file is read in and sorted in ascending order on antenna code and polarity (columns 1-4) and in descending order on frequency (columns 6-13).
- c. An update record is read and checked for type of update. If a new antenna is to be added, the update record is inserted in the proper sequence in the updated master general antenna data file. For a deletion, the entire record is removed from the updated file. To modify one or more fields, the matching record is found on the old master file and the new data are inserted in the record output to the updated antenna file.
- d. This process is repeated until all the updated cards have been completed and the updated master general antenna data file is output.

6.5 PROGRAM OPERATION

Figure 26, page 6-10, is a listing of all system and UPDATE cards necessary to execute GANTUP for a typical computer run.

6.6 LIMITATIONS

There are no program limitations in program GANTUP.

6.7 RUNNING TIME

Running time is estimated at 1 minute per 100 update records.

6.8 COMPUTER PROGRAM LISTING

A complete computer listing of program GANTUP is presented in table XX, page 6-11, annotated to aid in the understanding of the program functioning.

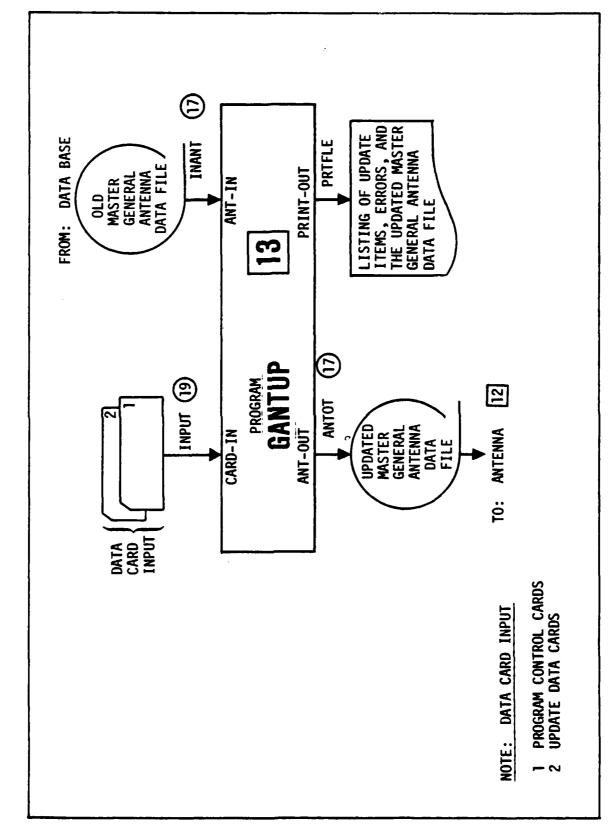


Figure 23. Program GANTUP, functional block diagram.

FIELD DESCRIPTION	CLAS. Must be exactly as shown for card ID.	Security classification to be included in page headings. Must not be blank.
MNEMONIC	CD-TYP	CD-DTA
BCD FORMAT		
CARD COL	1-4	6-17
FIELD NO.		7

Figure 24. GANTUP input, program control card.

FIELD NO.	CARD COL	BCD FORMAT	MNEMONIC	FIELD DESCRIPTION
1	1-3	А3	S-1	A 3-digit code assigned to each antenna type.
2	4	A1	S-2	A 1-character alphabetic code to indicate type of polarization: $H = horizontal$, $V = vertical$, $A = +45^{\circ}$, $D = -45^{\circ}$, $E = elliptical$, $C = circular$, $C = vertical/horizontal$, or another alphabetic character to represent any other unique polarization.
	5			Blank
က	6-13	48	S-3	Frequency (in kHz) down to which this set of data applies.
	14			Blank
4	15-18	A4	S-4	Maximum possible gain for this antenna in tenths of a dB.
	19			Blank
2	20–34	A10,A5	S-5	Descriptive name of this antenna.

Figure 25. GANTUP input, update data card (19)

FIELD DESCRIPTION	<pre>0 = unclassified, 1 = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = _onfidential NOFORN.</pre>	A 1-character code to indicate whether or not the antenna is directional: $D = directional$, $N = nondirectional$.	Length of antenna in thousandths of a foot, if applicable; otherwise, blank.	Radius of antenna in thousandths of an inch, if applicable; otherwise, blank.	General description of type of antenna.
MIEMONIC	9 - 8	S-7	8-8	S-9	S-10
BCD FORMAT	A1	A1	A6	A4	2A10,A6
CARD COL	35	36	37-42	43-46	47-72
FIELD NO.	9	^	∞	6	10

REMARKS:

To add a new antenna, columns 1-72 must be used.

To delete all members of a set, fill in columns 1-4.

To delete one member of a set or to modify the frequency or gain fields of an existing member of

a set, fill in columns 1-18.

To modify any field or fields other than frequency or gain for an existing set, fill in columns 1-4 and any fields to be modified in columns 20-72.

GANTUP input, update data card (19) (cont). Figure 25.

File Descrip	Ion: Master General Antenna Data File (17)	
File Name:	INANT/ANTOT Logical Unit: ANT-IN/ANT-O	Т
Mode/Type:	BCD Record Length: 72 characters	
Origin:	Data base file maintained by program GANTUP 13	
Used By:	ANTENNA 12 ; GANTUP 13	

NOTE: This file is sorted in ascending order on columns 1-4 and in descending order on columns 6-13.

TABLE XIX. MASTER GENERAL ANTENNA DATA FILE (17)

Data Description	Field Size	Field Posttion	Remarks
Antenna code	3	1-3	A 3-digit code assigned to each antenna type.
Antenna polarization	1	4	A 1-character alphabetic code to indicate type of polarization: H = horizontal, V = vertical, A = +45°, D = -45°, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.
	-	S	Blank
Frequency	8	6-13	Frequency (in kHz) down to which this set of data applies.
	-	14	Blank
Maximum antenna gain	7	15-18	Maximum possible gain for this antenna in tenths of a dB.
	~	19	Blank
Antenna nomenclature	15	20–34	Descriptive name of this antenna.
Security code	1	35	<pre>0 = unclassified, 1 = confidential, 2 = secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Directionality code	п	36	A 1-character code to indicate whether or not the antenna is directional: D = directional, N = nondirectional.

TABLE XIX. MASTER GENERAL ANTENNA DATA FILE (17) (CONT)

Remarks	Length of antenna in thousandths of a foot, if applicable; otherwise, blank.	Radius of antenna in thousandths of an inch, if applicable; otherwise, blank.	General description of type of antenna.						
Field Position	37-42	43-46	47-72	_		-			
Field Size	9	4	26		_				
Data Description	Antenna length	Antenna radius	Antenna description						

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TABLE XX. GANTUP COMPUTER LISTING (CONT)

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TABLE XX. GANTUP COMPUTER LISTING (CONT)

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SECTION 7 - PROGRAM DANTUP 14

7.1 PURPOSE

Program DANTUP 14 adds new data records or modifies data records presently contained in the master directional antenna data file.

7.2 PRINCIPAL FUNCTIONS

Program DANTUP, shown in figure 27, uses as input the old master directional antenna data file, together with directional antenna update data cards, and produces an updated master directional antenna data file for input to program ANAX 15 . The primary functions of program DANTUP are as follows:

- a. Inserts, in proper sequence, data contained in update cards for new directional antennas.
 - b. Deletes data records for old directional antennas.
 - c. Modifies data fields in existing directional antenna records.

7.3 INPUT/OUTPUT DESCRIPTION

Input to program DANTUP includes a program control card, update data cards, and the old master directional antenna data file. Output is the updated master directional antenna data file for use in program ANAX 15 A listing of the output file is obtained by copying the file LSTOUT to OUTPUT.

7.3.1 Input Format

Formats for input to program DANTUP are given in the following figures and table:

- a. Program control card, figure 28, page 7-4.
- b. Update data card (20), figure 29, page 7-5.
- c. Master directional antenna data file (21), table XXI, page 7-8.

7.3.2 Output Format

The format of the updated master directional antenna data file produced by program DANTUP is given in table XXI.

7.4 PROCESS DESCRIPTION

- a. Program DANTUP is written in COBOL for processing on the CDC CYBER 172 computer and requires 100000_8 words of central memory for compilation and execution.
- b. The update data card file is read and sorted in ascending order on antenna code, polarity, and elevation angle (columns 1-4 and 13-15) and in descending order on frequency (columns 5-12).
- c. An update record is read and checked for type of update. If a new antenna is to be added, the update record is inserted in the proper sequence in the updated master directional antenna data file. For a deletion, the entire record is removed from the updated file. To modify one or more fields, the matching record is found on the old master file and the new data are inserted in the record output to the updated antenna file.
- d. This process is repeated until all the update cards have been completed and the updated master directional antenna data file is output.

7.5 PROGRAM OPERATION

Figure 30, page 7-10, is a listing of all system and UPDATE cards necessary to execute DANTUP for a typical computer run.

7.6 LIMITATIONS

There are no program limitations in program DANTUP.

7.7 RUNNING TIME

Running time is estimated at 1 minute per 100 update cards.

7.8 COMPUTER PROGRAM LISTING

A complete computer listing of program DANTUP is shown in table XXII, page 7-11, annotated to aid in the understanding of the program functioning.

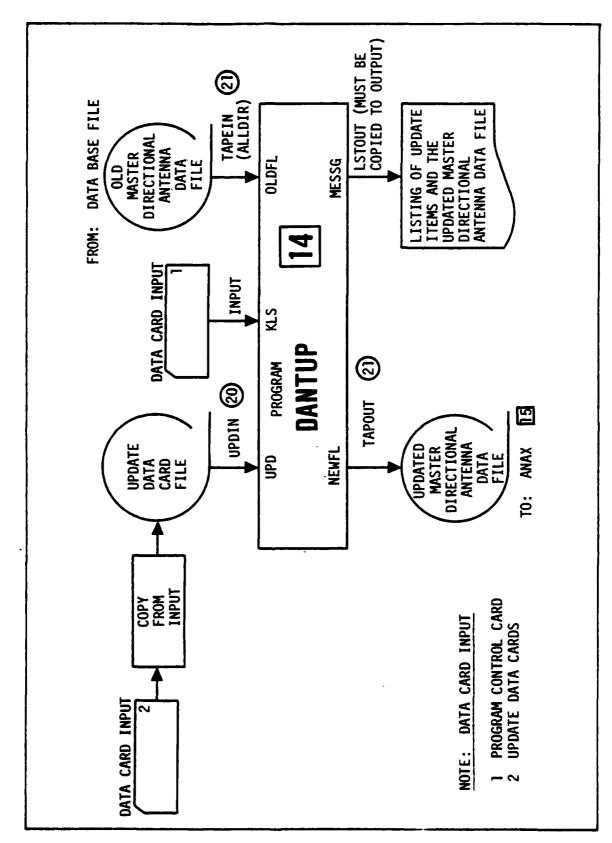


Figure 27. Program DANTUP, functional block diagram.

FIELD DESCRIPTION	Security classification to be included in page headings. Must not be blank.				
MNEMONIC	KLASS				
BCD FORMAT	A10,A2				
CARD COL	1-12				
FIELD NO.	-				

Figure 28. DANTUP input, program control card.

FIELD NO.	CARD COL	BCD FORMAT	MNEMONIC	FIELD DESCRIPTION
-	1-3	13	CFLD-01	A 3-digit code assigned to each antenna type.
7	4	A1	CFLD-02	A 1-character alphabetic code to indicate type of polarization: H = horizontal, V = vertical, A = +45°, D = -45°, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.
e	5-12	F8.0	CFLD-03	Frequency (in kHz) down to which this set of data applies.
4	13-15	F3.0	CFLD-04	Elevation angle in degrees.
S	16	¥1	CFLD-05	Security code: 0 = unclassified, 1 = confiden- tial, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.
9	17-18	12	CFLD-06	Number of azimuth points for this set of data.
7	19-21	F3.0	CFLD-07	Azimuth angle (1), in degrees.
∞	22-23	F2.0	CFLD-08	Deterioration of maximum gain (1) due to antenna orientation, in dB.
6	24-26	F3.0	CFLD-09	Azimuth angle (2).
10	27-28	F2.0	CFLD-10	Deterioration of maximum gain (2).
•	•	•	•	•
•	•	•	•	•
•			•	•
SEE	(SEE NOTES ON FOLLOWING PAGE)	LUMING PAGE)		

Figure 29. DANTUP input, update data card (20).

FIELD DESCRIPTION	Azimuth angle (12).	Deterioration of maximum gain (12).	
MNEMONIC	CFLD-29	CFLD-30	
BCD FORMAT	F3.0	F2.0	
CARD COL	74-76	17-78	
FIELD NO.	29	30	NOTES:

- Azimuth angles must be entered in increasing order and must contain data for 0°, 180° Fields 7 and 8 are repeated for a minimum of 3 and a maximum of 12 azimuth angles per set of (maximum value), and at least one other angle.
- If processing multiple elevation angles, the angles must be entered in increasing order with one set of azimuth/gain data for 0° , one set for 360° , and one set for at least one other angle in the range 0° - 90° or 270° - 360° , to a maximum of 20 elevation angles. (This option is not presently available.)
 - To add a new antenna, columns 1-78 must be used.
- To delete all members of a set, fill in columns 1-4.
- To delete one member of a set, fill in columns 1-15.
- To insert one or more new azimuth/gain combinations in an existing record, fill in columns 1-15 and as many azimuth/gain fields as needed beginning in column 19.
 - Enter the existing azimuth value in columns 19-21 and the new gain value in columns 22-23. To modify the gain field for an existing azimuth value, fill in columns 1-15.
- Enter To delete one azimuth/gain combination in an existing record, fill in columns 1-15. the existing azimuth value in columns 19-21 and leave columns 22-23 blank.

DANTUP input, update data card (20) (cont). Figure 29.

File Descri	ption: Master Di	rectional Antenna D	ata Fi	le (21)	
File Name:_	TAPEIN (ALLDIR)	/TAPOUT L	ogical	Unit:_	OLDFL/NEWFL
Mode/Type:	BCD	Record Length	: 78	charact	ers
Origin:	Data base file	maintained by DANTU	P 14		
Used By:	DANTUP 14; A	NAX [15]			

Notes:

- 1. This file must be sorted in ascending order on columns 1-4 and in descending order on columns 5-12.
- 2. If processing multiple elevation angles, the angles must be in increasing order with one set of azimuth/gain data for 0° , one set for 360° , and one set for at least one other angle in the range $0^{\circ}-90^{\circ}$ or $270^{\circ}-360^{\circ}$, to a maximum of 20 elevation angles. (This option is not presently available.)

TABLE XXI. MASTER DIRECTIONAL ANTENNA DATA FILE (21)

Data Description	Field Size	Field Position	Remarks
Antenna code	3	1-3	A 3-digit code assigned to each antenna type.
Antenna polarization	-	4	A 1-character alphabetic code to indicate type of polarization: $H = horizontal$, $V = vertical$, $A = +45^{O}$, $D = -45^{O}$, $E = elliptical$, $C = circular$, $B = vertical/horizontal$, or another alphabetic code to represent any other unique polarization.
Frequency	∞	5-12	Frequency (in kHz) down to which this set of data applies.
Elevation angle	e	13-15	Elevation angle in degrees.
Security code	1	16	<pre>0 = unclassified, 1 = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Number of azimuth points	2	17-18	Number of azimuth data points for this set.
Azimuth angle (1)	e	19-21	Azimuth angle in degrees.
Gain deterloration (1)	7	22–23	Deterioration of maximum gain due to antenna orientation in dB.
•	•	•	•
•			• •
•	•	•	•
(See note on following page)			

TABLE XXI. MASTER DIRECTIONAL ANTENNA DATA FILE (21) (CONT)

Remarks	Azimuth angle in degrees.	Deterioration of maximum gain due to antenna orientation in dB.	Azimuth angle and gain deterioration fields are repeated for a minimum of 3 and a maximum of 12 azimuth angles per set of data. Azimuth angles must be in increasing order and must contain data for 0°, 180° (maximum value), and at least one other angle.
Field Position	74-76	77–78	ration fielder set of de
Field	3	8	ain deterion
Data Description	Azimuth angle (12)	Gain deterioration (12)	NOTE: Azimuth angle and gamaximum of 12 azimut order and must contagnile.

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	LL IE, NA ITUP)	-60) FL-80)	GUT, GUTPUT) PEIN-DIRBKPS) POUT-ALLDIRS) CARD TASK CHANGES FOR DANTUP (IF ANY) ANTUP	ANTENNA
:	TASK NAME DIR ANT UPDATE OIPCKU/UN-BILL OIPCO) OMPILE, B-DANTU	185) RI=2,FL C,RI=2, C,RI=2, DIN)	UTPUT) DIRBKPS ALLDIRS D CHANGES	TIONAL
7500. USER 1D A000,N)	TASK DIR A EDIPCK EDIPOR	IN. ALLO IN. BTC EIN. BT BUT. BT	STOUT, OU TAPEIN = D TAPOUT = A CARD TASK C DANTUP	CARD
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	AUPT- 66/CDC/CDC51 80/07/28. 13.57.16		DANTUP 5 DANTUP 6 DANTUP 7	DANTUP 8 DANTUP 4 DANTUP 10				DANIOP 16 DANIOP 19 DANIOP 20					DANTUP 30 DANTUP 31		DANTUP 34	PONTO	DANTUP WY		DANIOP 40		DANTUP 44	DANTUP 46		OANTURA Garage		DANTUP 52
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TABLE XXII. DANTUP COMPUTER LISTING (CONT)

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	MIVO CO	DIUSEI-KEL.	02 FILLER	IFL		LABEL RECURD IS DI		02 NFLD-02			02 NFLD-05									02 F06		02 F08			02 F12 02 F13			02 F17		02 F19								02 F29	02 F30	2	DATA PECORO IS PAT	LABEL RECORD IS UNITED.

TABLE XXII. DANTUP COMPUTER LISTING (CONT)

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TABLE XXII. DANTUP COMPUTER LISTING (CONT)

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OS FILLER PICTURE XITO) VALUE A AZ GA AZ GA AZ CEDURE DIVISION. 1-IT SECTION. -1. 5.08T SORT-FILE GN ASCENDING KEY FIRST-KEY. SECNO-KEY ON OESCENDING KEY FIRST-KEY. SECNO-KEY IMPUT PROCEDURE IS OUT-1. 6.0 TO UPO-PROC. -1 SECTION. MEAD UPD AT END GO TO I-2. MEAD UPD AT END GO TO I-2. MEAD UPD AT END GO TO I-2. METERSE SOAT-REC. 1 SECTION. CLOSE UPD. -1 SECTION. N-DUI. OPEN UUTPUT UPD.			6		PICIORE		VALUE		A2 GA	A2 G		243
CEDURE DIVISION. 1-IT SECTION.			3 6				VALUE	٠	A	ج وَ م × د		244
SORT SORT-FILE ON ASCENDING KEY FIRST-KEY, SECNO-KEY INPUT PROCEDURE IS INP-1. LO INPO-PROC. LO UPD-PROC. LO SECTION. MEAD UPD AT END GO TO 1-2. MANGE CARD-IN TO SORT-REC. CLUSE UPD. 1. SECTION. N-DUI.	•	משטנים מ) u	MINICION	340-11-1		1016		1	,		266
SORT SORT-FILE ON ASCENDING KEY FIRST-KEY, SECNO-KET ON DESCENDING KEY FIRST-KEY, SECNO-KET INPUT PROCEDURE IS INP-1. GU TO UPD-PROC. 1 SECTION. MEAD UPD AT END GO TO 1-2. CLUSE UPD. 1 SECTION. N-DUI.	. 11	OR 1-1	1 SE								DANTUP	242
SORT SORT-FILE ON ASCENDING KEY FIRST-KEY. SORT SORT-FILE ON ASCENDING KEY FIRST-KEY. ON OESCENDING KEY THIRO-KEY INPUT PROCEDURE IS INP-1. GU TO UPD-PRUC. -1 SECTION. MEAD UPD AT END GO TO 1-2. CLOSE UPD. -1 SECTION. N-DUI. OPEN UUTPUT UPD.	. 51	RI-1.	}								DANTUP	248
INPUT PROCEDURE IS INP-1 OUTPUT PROCEDURE IS OUT-1. 60 TO UPD-PROC. L SECTION. NEAD UPD AT END GO TO I-2. MEAD UPD AT END GO TO I-2. LECTION. CLUSE UPD. 1 SECTION. N-DUI.		20	2 5	ORT-FILE O	N ASCENDING	G KEY	FIRST-	KEY, SE	CND-KET		DANTUP	549
INPUT PROCEDURE IS INP-1 OUTPUT PROCEDURE IS OUT-1. 60 TO UPD-PROC. -1 SECTION. N-IN. OPEN INPUT UPD. MEAD UPD AT END GO TO I-2. INSPECT CFLD-03 REPLACING ALL # * BY * 40#. INSPECT CFLD-03 REPLACING ALL # * BY * 40#. INSPECT CFLD-03 REPLACING ALL # * BY * 40#. CLOSE UPD. -1 SECTION. N-DUI.				0	N DESCENDE	NG 4EY	THIRD	-kEY			DANTUP	250
DUTPUT PROCEDURE IS OUT-1. 60 TO UPD-PROC. 1 SECTION. N-IN. N-IN. NEAD UPD AT END GO TO 1-2. MEAD UPD AT END GO TO 1-2. MEAD UPD AT END GO TO 1-2. MEAD UPD AT END GO TO 1-2. MOVE CARD-IN TO SORT-REC. CLOSE UPD. 1 SECTION. N-DUT.			Ξ	PUT PROCED	URE IS INP	7					DANTUP	251
LOUDD-FRUC. LOUDD-FRUC. DEN IMPUT UPO. MEAD UPD AT END GO TO 1-2. MEAD UTPUT UPD. LISETION. OPEN UUTPUT UPD.		,	3	TPUT PROCE	DURE IS OU	<u>-</u> -					DANIO	252
MENDER INPUT UPD. MEND UPD AT END GO TO 1-2. MEAD UPD AT END GO TO 1-2. MEAD UPD AT END GO TO 1-2. MENDE CARD-IN TO SORT-REC. MOVE CARD-IN TO SORT-REC. CLUSE UPD. CLUSE UPD. L SECTION. MOUI.	•	3 .	2	UPO-280C.							DANTUP	7 '
MEAD UPD AT END GO TO 1-2. MEAD UPD AT END GO TO 1-2. IF CFL0-03 EDUALS SPACE MOVE #9+J+9+3/4 TO CFLD-03. IF CFL0-03 EPPLACING ALL # # WY AOM. MOVE CARD-IM TO SORT-REC. AD TO 1-1. CLUSE UPD. L SECTIOM. MOUI.		AP-A	֝֝֝֝֓֓֓֓֝֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓								201240	255
MEAD UPD AT EMD GO TO 1-2. IF CFLD-03 EQUALS SPACE MOVE SOUTHLY TO CFLD-03. INSPECT CFLD-03 REPLACING ALL # BY AOF. MOVE CARD-IM TO SORF-REC. RELEASE SOAT-REC. CLOSE UPD. CLOSE UPD. 1 SECTION. N-DUI.	•	2	2	MPHE HOO.							DANTIL	۰ ۸
MEAD UPD AT END GO TO 1-2. IF CFLD-03 EQUALS SPACE MOVE 494334934 TO CFLD-03. INSPECT CFLD-03 REPLACING ALL # # BY 404. MOVE CARD-IN TO SORF-REC. O TO 1-1. CLUSE UPD. 1 SECTION. N-DUI.	-	•	•								DANTUP	. ~
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DANTUP COMPUTER LISTING (CONT) TABLE XXII.

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	MOVE	DELETES TU DELCNT.	9	101	
	MUVE	COUNTOUT TO PAT WALLE PAT.	DINK!	701	
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	UPEN	INPUT NEAFL.	DANTER		
	FILIST.		DAMTO		
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	60 10	filisi.	DANTIE	724	
	FINAL-END		DANTER	172	
	MOVE	HEAD-1 TO PRI WRITE PRI.	DANTER	474	
	CLUSE	NEWFL CLOSE MESSO.	DANTER	7.7	
	S10P	AUN.	DANTER	17	

SECTION 8 - PROGRAM ANAX 15

8.1 PURPOSE

Program ANAX 15 ensures that all required directional antenna data have been provided and prepares these data for use by program REVIIP 28

8.2 PRINCIPAL FUNCTIONS

Program ANAX, shown in figure 31, accepts as input the master directional antenna data file and the required general antenna data file. The program checks to insure that directional antenna data are provided for all directional antennas in the general antenna data file. The program outputs a binary file of condensed directional antenna data for use in program REVIIP 28, and a binary file containing all general antenna data for use in LAUX 25 and IGAUX 26. The principal functions of program ANAX are summarized as follows:

- a. Accepts as input the general antenna data file and reads all directional antenna data required.
- b. Accepts an option control switch (sense switch 1) that allows selection of antenna data either at zero degree only or at varying elevations. However, if this option is selected, significant changes to the program must be made to allow for processing more than one elevation angle. In addition, arrays must be redimensioned in subroutine ANTIN (program REVIIP [28]) to accept data for multiple elevation angles.
- c. Checks to insure that all required directional antenna data have been supplied.
- d. Checks to insure that directional antenna data contain no detectable errors.
 - e. Outputs a compact file of required directional antenna data.
 - f. Outputs a binary file of required general antenna data.

8.3 INPUT/OUTPUT DESCRIPTION

Input to program ANAX consists of the master directional antenna data file and the required general antenna file. The program outputs two files of antenna data (general and directional) and a printout of any errors in the data, or missing directional antenna data.

8.3.1 Input Format

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The formats of input data are given in the following tables:

- a. Required general antenna data file (18), table XXIII, page 8-6.
- b. Master directional antenna data file (21), table XXIV, page 8-10.

8.3.2 Output Format

The formats of output data files for program ANAX are given in the following tables:

- a. General antenna binary data file 22 , table XXV, page 8-14.
- d. Directional antenna binary data file 23 , table XXVI, page 8-16.

8.4 PROCESS DESCRIPTION

- a. Program ANAX is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer and uses 100000_8 words of central memory for compilation and execution.
- b. The program reads and outputs each general antenna data record onto the general antenna binary data file. At the same time, a census is made of all directional antenna codes needed in the deployment being processed. The program then reads the directional antenna data one set at a time and tests for errors. If no errors are discovered, the program tests sense switch 1 and accepts or ignores antenna elevation data accordingly. A switch is set if matching data are found for an antenna type code in the deployment. The program then writes a binary record that contains the required elements of the data set. This process is repeated until all input data have been processed. A check is made to see if matching directional data are available for all deployment types, and if they are error-free. If the data are error-free, the program takes its normal exit; if not, a list of erroneous or missing types is written and the program terminates.

8.5 PROGRAM OPERATION

Figure 32, page 8-18, is a listing of all system and UPDATE control cards necessary to execute ANAX for a typical computer run.

8.6 LIMITATIONS

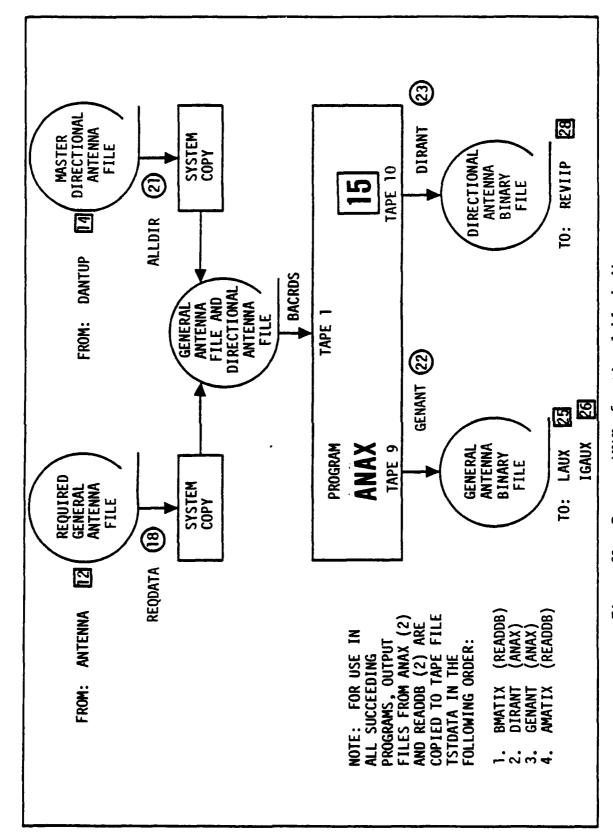
There are no limitations imposed by the program.

8.7 RUNNING TIME

The program will run the maximum number of antennas allowed in program REVIIP 28 in not more than 5 minutes.

8.8 COMPUTER PROGRAM LISTING

Table XXVII, page 8-19, contains a complete computer program listing for program ANAX, annotated to aid in the understanding of the program functioning.



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Figure 31. Program ANAX, functional block diagram.

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File Desc	ription:	Required (General An	tenna Data File (18)	
File Name	BACRDS	(file 1)		Logical Unit: 1	
Mode/Type	: BCD		Record	Length: 72 characters	
Origin:	ANTENNA	A 12			
Used By:_	ANAX [15			
Note: Th	is file	is sorted in	n ascendin er on colum	g order on columns 1-4	

TABLE XXIII. REQUIRED GENERAL ANTENNA DATA FILE (18)

Data Description	Field Size	Field Position	Remarks
Antenna code	3	1–3	A 3-digit code assigned to each antenna type.
Antenna polarization	1	4	A 1-character alphabetic code to indicate type of polarization: H = horizontal, V = vertical, A = +45°, D = -45°, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.
	1	5	Blank
Frequency	œ	6-13	Prequency (in kHz) down to which this set of data applies.
	–	14	Blank
Maximum antenna gain	4	15-18	Maximum possible gain for this antenna in tenths of a dB.
	=	19	Blank
Antenna nomenclature	15	20-34	Descriptive name of this antenna.
Security code	1	35	<pre>0 = unclassified, 1 = confidential, 2 = secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Directionality code	1	36	A 1-character code to indicate whether or not the antenna is directional: D = directional, N = nondirectional.

TABLE XXIII. REQUIRED GENERAL ANTENNA DATA FILE (18) (CONT)

	Remarks	Length of antenna in thousandths of a foot, if applicable; otherwise, blank.	Radius of antenna in thousandths of an inch, if applicable; otherwise, blank.	General description of type of antenna.				•	
	Field Position	37-42	43-46	47-72					:
•	Field Size	Ą	4	26					
	Data Description	Antenna length	Antenna radius	Antenna description					

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File Descr	Description: Master Directional Antenna Data File (21)					
File Name:	BACRDS (file 2)	Lo	ogical Unit: 1			
Mode/Type:	BCD	Record Length:	78 characters			
Origin:	Data base file main	tained by DANTUP	14			
Used By:	DANTUP 14; ANAX	15				

Notes:

- 1. This file is sorted in ascending order on columns 1-4 and in descending order on columns 5-12.
- 2. If processing multiple elevation angles, the angles must be in increasing order with one set of azimuth/gain data for 0° , one set for 360° , and one set for at least one other angle in the range $0^{\circ}-90^{\circ}$ or $270^{\circ}-360^{\circ}$, to a maximum of 20 elevation angles. (This option is not presently available.)

TABLE XXIV. MASTER DIRECTIONAL ANTENNA DATA FILE (21)

Data Description	Field	Field Position	Remarks
Antenna code	3	1-3	A 3-digit code assigned to each antenna type.
Antenna polarization	Ħ	4	A 1-character alphabetic code to indicate type of polarization: H = horizontal, V = vertical, A = $+45^{\circ}$, D = -45° , E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic code to represent any other unique polarization.
Frequency	∞	5-12	Frequency (in kHz) down to which this set of data applies.
Elevation angle	£	13-15	Elevation angle in degrees.
Security code	-	16	<pre>0 = unclassified, 1 = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Number of azimuth points	2	17-18	Number of azimuth data points for this set.
Azimuth angle (1)	٣	19-21	Azimuth angle in degrees.
Gain deterioration (1)	7	22-23	Deterioration of maximum gain due to antenna orientation in dB.
•	•	•	•
•	•	•	•
• •	• •	• •	• •
(See note on following page)			

TABLE XXIV. MASTER DIRECTIONAL ANTENNA DATA FILE (21) (CONT)

Field Position Remarks	74-76 Azimuth angle in degrees.	77-78 Deterioration of maximum gain due to antenna orientation in dB.	Azimuth angle and gain deterioration fields are repeated for a minimum of 3 and a maximum of 12 azimuth angles per set of data. Azimuth angles must contain data for 0', 180' (maximum value), and at least one other angle.
Field F	3 74	2 77	In deterioration angles per se in data for 0° .
Data Description	Azimuth angle (12)	Gain deterioration (12)	NOTE: Azimuth angle and gal maximum of 12 azimuth order and must contai angle.

INTENTIONALLY BLANK

File Descri	iption:	Gene	ral	Anteni	na Binar	y File (22)		
File Name:	GENA	NT ———				Log	cal Unit:_	9	
Mode/Type:_	Bina	гу			Record	Length:	7 words		
Origin:	ANAX	15							
Used By:	LAUX	25	;	IGAUX	26				

TABLE XXV. GENERAL ANTENNA BINARY FILE (22)

Data Description	Format To Print	Word Position	Remarks
Antenna code	13	τ	A 3-digit code assigned to each antenna type.
Antenna polarization	R1	7	A 1-character alphabetic code to indicate type of polarization: $H = horizontal$, $V = vertical$, $A = +45^{\circ}$, $D = -45^{\circ}$, $E = elliptical$, $C = circular$, $C = vertical/horizontal$, or another alphabetic character to represent any other unique polarization.
Frequency	81	က	Frequency (in kHz) down to which this set of data applies.
Maximum antenna gain	14	4	Maximum possible gain for this antenna in tenths of a dB.
Directional indicator	RI	٠,	A 1-character code to indicate whether or not the antenna is directional: $D = directional$, $N = nondirectional$.
Antenna length	16	9	Length of antenna in thousandths of a foot, if applicable; otherwise, blank.
Antenna radius	14	7	Radius of antenna in thousandths of an inch, if applicable; otherwise, blank.

File Descr	iption: Directional	Antenna B	inary F	ile (23)
File Name:	DIRANT		L	ogical Unit: 10
Mode/Type:	Binary	Record	Length	Variable, depending upon data available
Origin:	ANAX 15			
Used By:	REVIIP 28			

TABLE XXVI. DIRECTIONAL ANTENNA BINARY FILE (23)

								
Remarks	A 3-digit code assigned to each antenna type.	Frequency (in Hz) down to which this set of data applies.	A 1-character alphabetic code to indicate type of polarization: H = horizontal, V = vertical, A = +45°, D = -45°, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.	A count of the number of elevation angles for which data are available. At present, only one elevation angle, $0^{\rm o}$, is used. However, a maximum of 20 is allowed.	A count of the number of azimuth angles for which data are available, with a maximum of 12.	The first (and, at present, the only) elevation angle (0^0) .	Word 6 is repeated for each elevation angle for which data are available between $0^{\circ}-90^{\circ}$ and $270^{\circ}-360^{\circ}$, to a maximum of 20. The count in word 4 includes word 6 and word m.	The last elevation angle $(360^{\rm o})$.
Word Position	1	2	m	4	S	9	h elevatíor maximum of	E
Format To Print	£I	F12.0	R1	13	13	F4.0	ted for eacl -360°, to a	F4.0
Data Description	Antenna code	Frequency	Antenna polarization	Number of elevation data points	Number of azimuth data points	Elevation angle (1)	NOTE: Word 6 is repea 0°-90° and 270°, and word m.	Elevation angle (I)

TABLE XXVI. DIRECTIONAL ANTENNA BINARY FILE (23) (CONT)

DINECTIONAL ANTENNA BINAKI FILE (2) (CONT)	Remarks	The first azimuth angle (0^0) .	each azimuth angle for which data are available between 0° and 5 includes word m+1 and word n.	The last azimuth angle (180^{0}) .	Deterioration of maximum gain in dB due to antenna orientation for elevation angle (1) and azimuth angle (1).	<pre> </pre>	Deterioration of maximum gain in dB due to antenna orientation for elevation angle (I) and azimuth angle (J).
TIONER WATE	Word Position	n+1	ch azimuth includes wo	ď	n+1	rder, which angle (1).	.¥
DAVI. DINEC	Format To Print	F4.0	ated for ea	F4.0	F3.0	f peated in order, which for azimuth angle (1),	F3.0
	Data Description	Azimuth angle (1)	NOTE: Word m+1 is repeated for 180°. The count in word	Azimuth angle (J)	Gain deterioration (1,1)	NOTE: Word (n+1) is re- elevation angle	Gain deterioration (I,J)

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CUPTCF (REGOATA, BACROS)
COPTCF (REGOATA, BACROS)
UNLUAD (REGOATA, BACROS)
+++ GET INDIRECT ACCESS SECRET DIRECTIONAL ANTENNA DATABASE FILE
COPTCF (ALLDIR, BACROS)
                                                                                      RESUNCIPE-1,01-1)

*** GET INDIRECT ACCESS SECRET MASTER B-CURVE DATABASE FILE
COPYCERASSIER/BACRUS)
UNLIDADIBMASIER/
LABELIREODATA/R/PO-R/NT/D-PE/L-FASKNAME)
COPYCE/RECODATA/RUNY)
LLOYO READOB/ANAX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                9/ TASK CHANGES FOR READOB (IF ANY)
9/ TASK CHANGES FOR ANAX (IF ANY)
9CUMPILE READOB, ANAX
                                                                                                                                                                                                                                                                                                                                                                                      LABEL (ISTDATA, W., PD-A, NT, D=PE, L=TASKNAME)
CDPYHF (BMATIK, FSTOATA)
COPYHF (CENANT, FSTOATA)
CDPYHF (GENANT, FSTOATA)
CUPYHF (AMATIK, FSTOATA)
RETURN (ISTOATA)
                                                                                                                                                                                                                                                                                                                                UNL GAU ( 1 PM 1 PU )
F IN ( 1 , R = 3 , PL = 9999999 , B = REAUDB)
F IN ( 1 , R = 3 , PL = 999999 , B = ARAX)
                                                                              VSN(REGDATA-AAAA, TSTDATA-BBBB)
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COPYSEF (BACROS) OUTPUT)
COPYSEF (BACROS) OUTPUT)
COPYSEF (BACROS) OUTPUT)
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COMMENT. READUB/ANAA
COMMENT.
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 READUB, T1777.
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Figure 32. ANAX control card listing.

TABLE XXVII. ANAX COMPUTER LISTING

•	PROCRAM ANAX(BACRUS, cENANT, DIRANT, DUIPUT, TAPE1-BACROS, * tape9-genant, Tape10-olhant)	CZFINZ	91
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ی ر		OBMAY 29	3 5
, u	TAPETOLOTRANTS: THE PROCESSED DIRECTIONAL ANTENNA DATA FOR		9
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U		150CT73	108
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	DIMENSION APOL(1000), INAM(1000), ISA(1000)	0840V77	
	OLARINA INCIDA	CZFINZ	2
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	INTEGER ANALASANSON APOL POLSO	C2F1M2	7
	INTERPOLATION OF THE PROPERTY	1500173	-
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	SOMFIAST AZES-LOHUTH NUT RE-ZHKD.	C2FINZ	~
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		CZFINZ	=
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	B LOHAZIM PDINT, 10HS VARY WIT, 9HMIN ELEVS!	CZFINZ	Ë
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U	TURN ON SEASE SWITCH 1 TO PROCESS ELEVATION DATA.	1500173	120
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TABLE XXVII. ANAX COMPUTER LISTING (CONT)

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TABLE XXVII. ANAX COMPUTER LISTING (CONT)

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TABLE XXVII. ANAX COMPUTER LISTING (CONT)

80/07/29, 10.40.45

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73/74 OPT-1

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IF (IR.NE.D) GJ TJ ZL3 ANAX ANAX PRINT 210 CUD. CUD. CUD. POLARIZATION AEASON*) 18-1 213 JJ-15MII) PAINT ZIJ-IMAMII)*POL(I)*(ERRURS(JJJ)1*J*L*J*J) PAINT ZIJ-IMAMII)*APOL(I)*(ERRURS(JJJ)1*J*L*J*J) 211 FORMATILBADA*RL*IOA*JAD) DUTPUT MESSAGE TO CHECK DIR ANT ARRAY SIZE IN REVIIP OBHAYTY PRINT 93*ICOUNT ***ANAX OBHAYTY OBHAYTY ANAX ANAX OBHAYTY OBHAYTY		1f(15,4(1), Eq.0) GDTq 212	12001	
PRINT 210 PORMATCH DIRECTIONAL ANTENNA DATA MISSING FROM DATA BASE:0//0 150CT73 0 CUDL POLARIZATION ACASONO) 18-1 213 JJ-15W(1) PAINT 21.1-INAM(1).APOL(1).(ERORS(J.JJ).J-1.3) 213 FORMAT(18-10-10-10-10-10-10-10-10-10-10-10-10-10-		IF (IR.NE.D) 63 13 ZI3	***	
210 FORMATION DIRECTIONAL ANTENNA DATA MISSING FROM DATA BASEIVE TO TOUCH 3 TO		PRINT 210	ARAK	7 .
• CUDL POLARIZATION ACASON®) 18-1 213 JJ=154(1) PRINT 211.5IMA#(1).4POL(1).(ERRORS(J-JJ).J=1.3) PRINT 212.5IMA#(1).4POL(1).(ERRORS(J-JJ).J=1.3) 211 FOHMAT(18:10x.R1.10x.R1.10x.R1.10x.R1.1) 212 CONFINUE DUFPUT MESSAGE TO CHECK DIR ANT ARRAY SIZE IN REVIIP OBMAY79 PRINT 93-1COUNF ANAX J. FORMAT(FILO.® DIRECTIONAL ANTENNAS. MAXIMUM ALLOWED IN REVIIP(A OBNOV77 ANTAX OBNOV77	210	FORMATION DIRECTIONAL ANTENNA DATA	1001	
18-3. 213 JJ-15V(I) PRINT 215-INAM(I)-APOL(I)-(ERRURS(J-JJ1)-J-1-3) 211 FOWHAT(ISD-10X-R)-10X-3A10) 212 CONFINUE 212 CONFINUE DUFUT MESSAGE TO CHECK DIR ANT ARRAY SIZE IN REVIIP OBHAY79 PRINT 93-ICOUNF ANAX J-2 FORMAT(10-0-110)-0 DIRECTIONAL ANTENNAS. MAXIMUM ALLOWED IN REVIIP(A OBNOV77 ANAX AN		DL POLARIZATION	1500113	-
213 JJ-ISW(I) PAINT 21. INAM(I) APOL(I) (EROURS(J-JJ), J-1.3) 150C(T3 211 FORMAT(ISBIOX-RI-10K-3410) NER-NERR-I NER-NERR-I ANAX 212 CONTINUE 212 CONTINUE DUTPUT MESSAGE TO CHECK DIR ANT ARRAY SIZE IN REVIIP OBMAY79 PRINT 93-ICOUNT ANAX 3. FORMAT(FILO) ORGECTIONAL ANTENNAS. MAXIMUM ALLOWED IN REVIIP (A OBNOV77 ANAX ANAX ANAX ANAX ANAX ANAX ANAX AN			ANAX	
PRINT 211, IMAM(1), APOL(1), (ERRORS(J,JJ), J=1,3) 211 FORMAT(18, 10x, Rl, 10x, 3410) NERR-NERR-1 212 CONTINUE DUTPUT MESSAGE TO CHECK DIR ANT ARRAY SIZE IN REVIIP OBMAY79 PRINT 93, ICOUNT 33 FORMAT(9-0-110)** DIRECTIONAL ANTENNAS. MAXIMUM ALLOWED IN REVIIP (A OBNOV77) ANAX OBMAY79 OBMAY79 OBMAY79 OBMAY79 OBMAY79 OBMAY79 OBMAY79 OBMAY79	513	-	1500173	
211 FORMAT(18,10x,71,10x,7410) NERR*NERR*1 150C173 ANAX 212 CONTINUE DUTPUT MESSAGE TO CHECK DIR ANT ARRAY SIZE IN REVIIP OBMAY79 PRINT 94,1COUNF ANAX ANAX ANAX ANAX OBMAY79 ANAX OBMAY79 OBMAY79 OBMAY79 OBMAY79 ANAX OBMAY79		PRINT 211, INAM(1), APOL(1), (ERRORS(J,JJ),J-1,3)	1500173	ž
NERR-NERR-1 150C173 212 CONFINUE ANAX ANAX 048A479 PRINT 93-1CDUNF 3-1 FORMAT 9-1-110-0 DIRECTIONAL ANTENNAS. MAXIMUM ALLOWED IN REVIEW OBNOV77 ANAX ANAX	211	_	PACKIGA	
212 CONFINUE DUIPUT MESSAGE TO CHECK DIR ANT ARRAY SIZE IN REVIIP OBMAY79 PRINT 99,1COUNF J. FORMATIGILO.* DIRECTIONAL ANTENNAS. MATHUM ALLOWED IN REVIIP (A OBNOV77 MATHUM IS 249.*)			1500173	18
DUTPUT MESSAGE TO CHECK DIR ANT ARRAY SIZE IN REVIIP DUNAY79 PRINT 94-ICOUNF 4) FORMATSIIO.* DIRECTIONAL ANTENNAS. MATIMUM ALLOWED IN REVIIP(A OSNOV77 MATIMUM IS 249.*)	717		ANAX	Ì
DUIPUI MESSAGE TO CHECK DIR ANT ARRAY SIZE IN REVIIP OBMAY79 PRINT 94-ICOUNF 4) FORMATIOILO DIRECTIONAL ANTENNAS. MAXIMUM ALLOWED IN REVIIP!A OBNOV77 MATA MATA MATA MATA MATAMATA OBNOV77			OHMAY 79	155
DRINT 91. ICDUNF	, .	TO CHECK DIR ANT ARRAY SIZE IN	_	156
PRINT 91-ICOUNF 12 FORMATIO-0-ILO: DIRECTIONAL ANTENNAS. MAXIMUM ALLOWED IN REVIIP(A OBNOV77 1MTM: 15 2542.0-1	, ₍		_	15
FORMATION DIRECTIONAL ANTENNAS. MAKIMUM ALLOWED IN REVIIP(A OBNOV77 NATION IS 264.6)	•	July Dar Child	ANAX	=
22 ADDRESS OF THE PROPERTY OF	•	FORMATA PARTICULAR	_	~
		101111 10 10 41 41 41 41 41 41 41 41 41 41 41 41 41		7

(CONT)
STING
ANAX COMPUTER LISTING
ANAX C
XXVII.
TABLE

				TABLE XXVII.	TABLE XXVII. ANAX COMPUTER LISTING (CONT)	(CONT)		
	PROGRAM AN	ANAX	73/74	UPT-1	FIN 4.8+498	80/07/24. 10.40.45	10.40.45	PAGE
230		<i></i>		OUTPUT APPROPRIATE T	DUTPUT APPROPRIATE TERMINATION MESSAGE AND END.	OBMAY 79		
		~ •	IFINERR.EJ.OJGOTU 500	301U 500		150C173	165	
		900	FORMA (+ 1 + 3 + 3 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4	FORMATION 34 ** 13, * ANOHALIES DETECTED BY ANAX. *)	FECTED BY ANAX.+1	C2FTN2 C2FTN2		
235		200	MINI 901			21APRBO	~ 4	
		3 2 3	BRNATC+ AU A	FORMATION AND ANDMALIES DETECTED BY ANAK	ANAK	CZFINZ		
		1				YVV	171	

SECTION 9 - PROGRAM MISEQIP 16

9.1 PURPOSE

Program MISEQIP 16 compares the equipment summary file output by EDIT 8 with the master equipment class file and identifies any items missing from the master equipment file.

9.2 PRINCIPAL FUNCTIONS

Program MISEQIP, shown in figure 33, accepts as input the equipment summary file output by EDIT, the master equipment class code assignment file, and the data cards required for processing. It produces as output a listing of deployed equipments missing from the master equipment file and an extract of the master equipment code assignment file based on the deployment of interest. The principal functions of MISEQIP are summarized as follows:

- a. Identifies any deployed equipments missing from the master equipment class code assignment file.
- b. Compiles an extract of matched equipments from the master equipment file based on a summary of the equipments in the deployment being processed.
- c. Flags equipments in the extract to indicate any that are (1) to be deleted from the analysis or (2) to be processed as interferers only.
- d. Substitutes deployment frequency range for master file frequency range, if this option is specified for the output file.

9.3 INPUT/OUTPUT DESCRIPTION

Input to program MISEQIP consists of two program control cards, the equipment class summary file, and the master equipment class code assignment file. Output consists of a listing of any deployed equipments missing from the master equipment class file and an extract of the master equipment file containing data for all matched equipments required by the subject deployment. This file is used as input to programs OVERLAP 18 and EQCLSFF 22.

9.3.1 Input Format

The format of input data, including information necessary to punch input data cards for program MISEQIP, is given in the following figures and tables:

- a. Program control card, figure 34, page 9-5.
- b. Use code data card, figure 35, page 9-6.

- c. Equipment summary file (11), table XXVIII, page 9-8.
- d. Master equipment class code assignment file (24), table XXIX, page 9-10.

9.3.2 Output Format

The format of output from program MISEQIP is given in the required equipment file (25), table XXX, page 9-14.

9.4 PROCESS DESCRIPTION

- a. Program MISEQIP is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer. It requires 100000_8 words of central memory for compilation and execution.
- b. The master equipment class code assignment file is read into storage.
- c. The program reads in two data cards containing the security classification, frequency range option, and use code values indicating equipments to be flagged for deletion or special handling.

d. Input data are processed as follows:

- (1) An equipment record read from the equipment summary file is matched on the first 10 characters against the stored master equipment file. If a match is found and the deployment frequency range is within the master tuning range, the equipment record is written to the required equipment output file. If the frequency assignment is not within the equipment tuning ranges, a tuning mismatch item is noted on the standard output file and the record is also output to the required equipment file.
- (2) If the 10-character match is unsuccessful, the missing equipment list is written containing the first 10 characters of the equipment summary file.
- (3) This process is repeated until all data on the equipment summary file have been processed. If any equipment is missing from the master equipment file, the required equipment file is flagged as being incomplete.

9.5 PROGRAM OPERATION

Figure 36, page 9-17, is a listing of all system and UPDATE control cards necessary to execute MISEQIP for a typical computer run.

9.6 LIMITATIONS

There are no program limitations.

9.7 RUNNING TIME

Running time is estimated at 5 minutes per 500 input equipment summary records.

9.8 COMPUTER PROGRAM LISTING

Table XXXI, page 9-19, contains a complete computer listing for program MISEQIP and subroutine NEWPG, annotated to aid in the understanding of the program functioning.

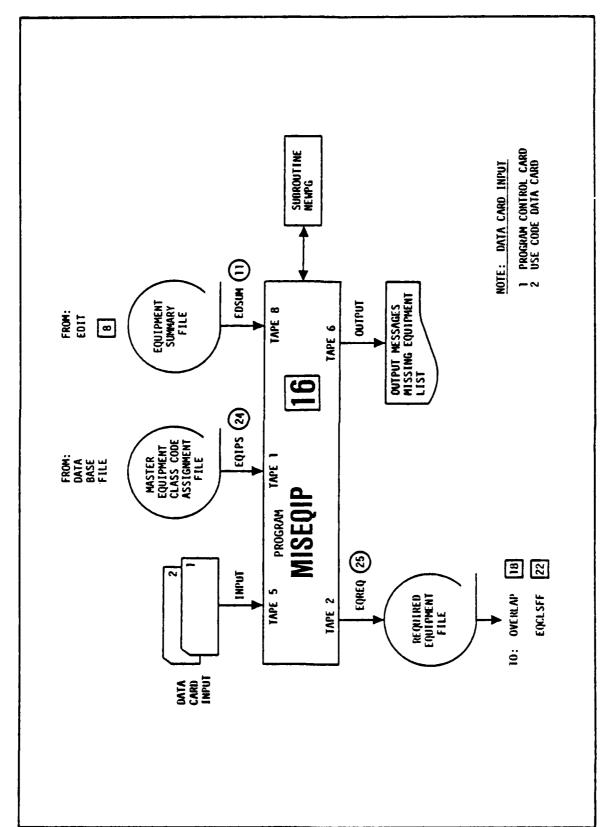


Figure 33. Program MISEQIP, functional block diagram.

FIFLD DESCRIPTION	Security classification to appear in page headings.	Frequency range option. If DEPLOYEDbb is left- justified in the field, the frequencies written out to the required equipment file are from the equipment summary file; otherwise, the frequen- cies will be the tuning range from the master equipment file
MNEMONIC	KLASS	IOPT
BCD FORMAT	A10	A10
CARD COL	T-10	11-20
FIELD NO.	4	8

Figure 34. MISEQIP input, program control card.

FIELD NO.	NO. CARD COL	BCD FORMAT	MNEMONIC	FIELD DESCRIPTION
1 2	1 2	A1 A1	USECD(1)	Alpha character indicating use code for equipments to be deleted from analysis. Use codes
•	•	• (•	may be in any order in card columns 1-40. May include blanks which are ignored.
40	. 07	A1	USECD(40)	
41	41	A1 A1	USECD(41)	Alpha character indicating use codes for equipments to be processed as interferers only
• •	• •	• •	• •	in the analysis. (This code, in effect, deletes receivers.) Codes may be in any order in card
. 08	80	• A1	usecd(80)	columns 41-80. May include blanks which are ignored.
NOTE:	Use codes are define finding, E = fixed i sensors, N = navigal range bearing (radau Z = special electron	efined as foll xed frequency vigation aids, radar), V = sectionic warfar	ows: B = broa emergency guar 0 = orderwire nsor data link e (EW). Other	ed as follows: B = broadcast/television, C = communications, D = direction frequency emergency guardband, I = intercept/ESM, J = jammer/ESM, M = tion aids, O = orderwire, Q = miscellaneous special purpose, S = detecting/r), V = sensor data link, X = IFF, Y = security monitoring (COMSEC, etc.), nic warfare (EW). Other codes are assigned as needed.

Figure 35. MISEQIP input, use code data card.

File Descri	ption: Equipment	Class Summary File	(11)	
File Name:_	EDSUM	Log	gical Unit:	8
Mode/Type:_	BCD	Record Length:_	28 characters	·
Origin:	EDIT 8			
Used By:	MISEQIP 16			

TABLE XXVIII. EQUIPMENT CLASS SUMMARY FILE (11)

Data Description	Field Size	Field Position	Remarks
Component code	e	1–3	A 3-character alphanumeric code assigned to this equipment component.
Major equipment code	7	4-5	A 2-character alphanumeric code assigned to this major equipment class.
Modulation code	8	6-7	A 2-digit code indicating modulation type: 33 = F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = F9, 50 = F0, 58 = F9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.
Number of channels	m	8-10	The number of channels assigned for this equipment component, if applicable. If equipment is encrypted, 500 has been added to number of channels to indicate it is encrypted.
Low frequency	∞	11–18	The lowest frequency (in kHz) at which this equipment is deployed.
High frequency	∞	19-26	The highest frequency (in kHz) at which this equipment is deployed.
Equipment function code	2	27–28	A 2-digit code indicating how this equipment functioned in the subject deployment: 01 = transmitter only, 10 = receiver only, 11 = both transmitter and receiver.

File Description: Master Eq	uipment Class Code Assignment File (24)
File Name: EQIPS	Logical Unit: 1
Mode/Type: BCD	Record Length: 80 characters
Origin: Basic data file ma	intained by ECUPDT
Used By: MISEQIP 16 ; ECU	PDT 17

TABLE XXIX. MASTER EQUIPMENT CLASS CODE ASSIGNMENT FILE (24)

Data Description	Field Size	Field Position	Remarks
	1	1	Blank
Component code	m	2-4	A 3-character alphanumeric code assigned to this equipment component.
Major equipment code	7	9-6	A 2-character alphanumeric code assigned to this major equipment class.
Modulation code	7	7-8	A 2-digit code indicating modulation type: 33 = F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = F9, 50 = P0, 58 = P9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.
Number of channels	e	9-11	The number of channels assigned for this equipment component, if applicable. If subfield 9 > 5, the equipment is encrypted.
Component nomenclature	15	12-26	Name of the component associated with this component code.
Major equipment nomenclature	15	27-41	Name of the major equipment associated with this major equipment code.
Low tuning range limit	&	42–49	Lowest frequency (in kHz) to which this equipment will tune.
High tuning range limit	∞	50-57	Highest frequency (in kHz) to which this equipment will tune.
	1	58	Blank

TABLE XXIX. MASTER EQUIPMENT CLASS CODE ASSIGNMENT FILE (24) (CONT)

Data Description	Field	Field Position	Remarks
Use code		59	A 1-character alphabetic code indicating the use type of equipment: B = broadcast/television, C = communications, D = direction finding, E = fixed frequency emergency guardband, I = intercept/ESM, J = jammer/ESM, M = sensors, N = navigation aids, O = orderwire, Q = miscellaneous special purpose, S = detecting/range bearing (radar), V = sensor data link, X = IFF, Y = security monitoring (COMSEC, etc.), Z = special electronic warfare (EW). Other codes are assigned as needed.
	-	09	Blank
Force code	-	61	A 1-character alphabetic code indicating force type: B = BLUE (friendly), R = RED (enemy).
	п.	62	Blank
XY code	2	63-64	A 2-character alphabetic code indicating equipment type: XX = transmitter only, XY = trans-ceiver, YY = receiver only.
	-	65	Blank
New equipment class	6	72-99	Expanded equipment class for future development. Not presently used,
	1	75	Blank

TABLE XXIX. MASTER EQUIPMENT CLASS CODE ASSIGNMENT FILE (24) (CONT)

Data Description	Field Size	Field Posttion	Remarks
Equipment class code (last 5 of 6 digits)	S	76-80	A 5-digit code assigned to indicate the equipment class when the data set code is attached as the first of a total of 6 digits. The final 5 digits are assigned as follows:
			Subfield 76. Modulation code: 1 = F3 = 33, 2 = A3 = 13, 3 = A3A or A3J = 14, 4 = F1 = 31, 5 = F9 = 36, 6 = P0 = 50, 7 = P9 = 58, 8 = A2 or A9 = 18 or 12, 9 = A1 = 11, 0 = special or other.
			Subfield 77. Bandwidth: For modulation codes 1-5 and 8, 9, 0: 1 = narrow, 2 = medium, 3 = wide, 4 = very wide; for modulation codes 6 and 7: 5-9 and 0 indicate different "B" matrices.
			Subfield 78-79. Sequence number: 00-99 = final specific equipment designator within modulation code and bandwidth.
			Subfield 80: Siting preference: 1 = normal, 2 = normal, 3 = airborne radar, 4 = ground radar, 5 = preferred, 6 = airborne nonradar, 7 = radio relay (LOS), 8 = nap of the earth, 9 = troposcatter, 0 = satellite.
	.		

File Descri	iption:	Required	Equipment Fi	.le (25)		
File Name:	EQREQ			Logi	cal Unit:	2
Mode/Type:_	BCD		Record	Length:	81 characte	rs
Origin:	MISEQIP	16				
Used Bv:	OVERLAP	18 :	EOCLSFF 22			

TABLE XXX. REQUIRED EQUIPMENT FILE (25)

Data Description	Field	Field Posttion	Remarks
	1	7	Blank
Component code	m	2-4	A 3-character alphanumeric code assigned to this equipment component.
Major equipment code	8	5-6	A 2-character alphanumeric code assigned to this major equipment class.
Modulation code	8	7-8	A 2-digit code indicating modulation type: $33 = F3$, $13 = A3$, $14 = A3A$ or $A3J$, $31 = F1$, $36 = F9$, $50 = P0$, $58 = P9$, $18 = A2$, $12 = A9$, $11 = A1$. Other codes for specific types may be used occasionally.
Number of channels	က	9-11	The number of channels assigned for this equipment component, if applicable. If subfield 9 > 5, the equipment is encrypted.
Component nomenclature	15	12-26	Name of the component associated with this component code.
Major equipment nomenclature	15	27-41	Name of the major equipment associated with this major equipment code.
Low tuning range limit	∞	42–49	Lowest frequency (in kHz) to which this equipment will tune.
High tuning range limit	∞	50-57	Highest frequency (in kHz) to which this equipment will tune.
	1	58	Blank

TABLE XXX. REQUIRED EQUIPMENT FILE (25) (CONT)

	n Remarks	A 1-character alphabetic code indicating the use type of equipment: B = broadcast/tele-	vision, C = communications, D = direction finding, E = fixed frequency emergency guard- band, I = intercept/ESM, J = jammer/ESM, M = sensors, N = navigation aids, O = orderwire, Q = miscellaneous special purpose, S = detect-	<pre>ing/range bearing (radar), V = sensor data link, X = IFF, Y = security monitoring (COMSEC, etc.), Z = special electronic warfare (EW). Other codes are assigned as needed.</pre>	Blank	A 1-character alphabetic code indicating force type: B = BLUE (friendly), R = RED (enemy).	Blank	A 2-character alphabetic code indicating equipment type: XX = transmitter only, XY = transceiver, YY = receiver only.	Blank	Expanded equipment class for future development. Not presently used.	Blank
	Field Posttion	59			09	61	62	63-64	65	72-99	75
· · · · · · · · · · · · · · · · · · ·	Field Size	-			1	-	-	2	П	6	1
	Data Description	Use code				Force code		XY code		New equipment class	

TABLE XXX. REQUIRED EQUIPMENT FILE (25) (CONT)

Data Description	Field Size	Field Position	Remarks
Equipment class code (last 5 of 6 digits)	٠	76-80	A 5-digit code assigned to indicate the equipment class when the data set code is attached as the first of a total of 6 digits. The final 5 digits are assigned as follows:
			Subfield 76. Modulation code: 1 = F3 = 33, 2 = A3 = 13, 3 = A3A or A3J = 14, 4 = F1 = 31, 5 = F9 = 36, 6 = P0 = 50, 7 = P9 = 58, 8 = A2 or A9 = 18 or 12, 9 = A1 = 11, 0 = special or other.
			Subfield 77. Bandwidth: For modulation codes 1-5 and 8, 9, 0: 1 = narrow, 2 = medium, 3 = wide, 4 = very wide; for modulation codes 6 and 7: 5-9 and 0 indicate different "B" matrices.
			Subfield 78-79. Sequence number: 00-99 = final specific equipment designator within modulation code and bandwidth.
			Subfield 80: Siting preference: 1 = normal, 2 = normal, 3 = airborne radar, 4 = ground radar, 5 = preferred, 6 = airborne nonradar, 7 = radio relay (LOS), 8 = nap of the earth, 9 = troposcatter, 0 = satellite.
	П	81	A 1-character alpha code to flag equipments for special handling. Slash (/) = delete equipment from analysis, asterisk (*) = process for interferers only; otherwise, blank.

```
LLOYD MISEOIP/OVERLAP/ANTENNA S
                                                                                                                                                                FINII A = 3.PL = 94949999.B=NISEUIP)
FINII A = 3.PL = 94949999.B=NUELAP)
FINII A = 3.PL = 94949999.B=NUELAP)
FINII A = 3.PL = 94949999.B=NUELAP)
FINII A = 3.PL = 9494999.B=NUELAP)
CUPYCFIEUSMAY EDWAY)
CUPYCFIEUSMAY SUMARY)
REAINDIEDSUM, SUMARY)
A = 1.NDIARET ACCESS SECRET EQUIPMENT CLASS DATABASE FILE
*** GET INDIRECT ACCESS SECRET GENERAL ANTENNA DATABASE FILE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ANICUMP.
CDPYSBF GENRNI, GUIPUI)
CDPYSBF GENRNI, GUNEVI)
CUPTSBF LANIKE O'GUIPUI)
REMINDIANIREJ
LABEL (REUDAIA, A'PU-W, NI, O-PE, L-IASKNAME)
COPTCF (AMAIRQ)-REUDAIA)
COPTCF (AMAIRQ)-REUDAIA)
COPTCF (AMAIRQ)-REUDAIA)
CUPTCF (ANIREQ)-REUDAIA)
AL TURNIRE ODAIA)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TASK CHANGES FOR MISEUIP LIF
TASK CHANGES FOR DVEKLAP LIF
TASK CHANGES FOR ANTENNA LIF
MISEUIP, DVC. YLAP, ANTENNA
                                                           MISECIP/OVERLAP/ANTENNA
                                                                                                                                                                                                                                                                                                                                                                            UVERLAP.
UNLGAD(IN.TAPE3.TAPE4.CALSUN)
COPYSBFIAMATRO.OUTPUI)
KEWIND(AMAIRO)
                                                                                                        GET(CALSUM-CLSMRYU/UN-JIM,NA)
SET(EQIPCKU-EQIPCKU/NA)
MAP(PART)
                                                                                  VSN (EUSMRY-AAAA, REQDATA-BBBB)
                                                                                                                                                                                                                                                                                                                UNICIAD (EGIPS, EDSUM)
COPYSBF (EGRE J, OUTPUT)
REWIND (EGREG)
                                                                                                                                                                                                                                                                                                      CUPYSBF (EQIPS, OUTPUT)
MISEGIP, F3777.
USER(** USER ID **)
CHARGE (MA000,N)
                                                                                                                                            UPDATE (P-LOIPCKU) UNLOADIEGIPCKU)
                                               TASK NAME
                                                                                              RESUURCIPE-1,01-1)
                                                                                                                                                                                                                                                                                                                                                      CUPYCR(INPUT, 1A)
REWIND(IN)
                                                                                                                                                                                                                                                                                          MISEGIP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OCUMP ILE
```

TO THE SECOND STREET STREET STREET

MISEQIP (MISEQIP/OVERLAP/ANTENNA) control card listing. Figure 36.

CARD	DEPLOYED		CARD	TRUE	CARO	IASK NAME	CARD	CARD
7-8-9	SECRET	Đć.	7-8-1	SECRET	7-9-2	SECRET	4-8-6	6-7-6-4
1 511	125)	(53)	1 541	1 52 1	(26)	(57)	(54)	5.1

QSGNOXF

TABLE XXXI. MISEQIP COMPUTER LISTING TABLE XXXI. MISEOIP COMPUTER LISTING

PAGE

	PROGNAM MISEUIP 73/74 UPT=1	FIN 4.4498 B	80/07/28. 1	13.56.53
-	PRUGRAM MISEQIPIE QIPS, EQREQ, INPUT, OUTPUT, EDSUM, TAPEL - EQIPS,	EDSUN, TAPE1-EOIPS.	SMALCOR	-
	~	APE6*OUTPUT, TAPE8*EDSUM)	MISEGIP	N M
•		IN THE EDIT SHRWARY FILE	MISEOIP	4 4
•	C TO DEFINE MISSING OR ERRONGOUS EQUIPMENT TIERS.		SMALCOR	· m ·
	477 20147110 1104 1711	AUT NO ROLLOS DE LITOR	MISEOIP	• •
	C FIRST TEN CHARACTERS ASCENDING.	מסוימה	MISEOIP	2 -
9			MISEOIP	12
	ں ن		MISEOIP	13
	EUIPSCIAPELD		FINASOP	· ^
		IRED FUR A TASK	FINMSOP	۰ ب
12	INPUT (IAPES)	CARDS	FIRMSOP	، م
	COTPUT(TAPES)	PROCESA FOLL	FINASOP	• =
	1834110000		MISFOLP	21
	, •		MISEGIP	22
20			MISCOIP	23
	DIMENSION EQUIP(13), DEPLY(2,6)		SMALCOR	4 6
	からない こうはい こうかい かいうかい とう		SMALCOR	3 5
			MISEOIP	27
52	DATA EQUIP(1)/0/		SMALCOR	•
	DATA JUPT/10HOEPLOYED /		MISEUIP	54
	LINE-0		MISEGIP	30
	FRFIGST STORY		1101011	1 .
30	CAD		SMALCOR	``
}	CALL SHFILE (ASUNTA, ACODEDA, 8)		SMALCOR	•
	CALL SMFILE (ADUTPUTA, ACODEDA, 5)		SMALCUR	•
		(44)	SMALCOR	01
;	CALL SMEND		SMALCOR	1:
32			SMALCOR	77
	CALL SANDALATOR (40)		SMALCUR	5 7
	CATE		SHALCOR	
	CALL SNKEY(2,1,10,0,401SPLAY4,401SPLAY4,	(74)	SMALCOR	16
5	CALL SHEND		SMALCOR	17
	RE W SI		SMALCOR	97
	•		MINEOIP MINEOIP	.
	SCHESCALION CLASSIFICATION		MISEOIP	21
4.3			MISCOIP	52
			MISEOLP	53
			MISECIP	÷.
	O FORMAL(ZALO/BOAL)		MISCOIP	υ . υ .
90			MISFOIP	2.5
	7 FORMATIONS, COUR SLIMINATION VALUES +//1X+30A1/)	()30A1/)	MISEGIP	3.8
			MISEGIP	25
	1056.0		MISEOIP	09
;			MISEOIP	61
ç	INC. TINC.		A SECTO	70
	105c = 105c + 1		MISEGIP	6 9
	711711711717			5

TABLE XXXI. MISEQIP COMPUTER LISTING (CONT)
TABLE XXXI. MISEQIP COMPUTER LISTING (CONT)

	PAGE																																																										
	13.56.53															22		2		57	02) .					Ç 4				001																	3 2	21	3.5	33	
(CONT)	40/01/28.	MISEOIP	MISEOIP	MISEOIP	MISEOIP	M15601P	MISEOIP	MISFOLP	9101011	2000	1102011	7103CIF	MISEOIP	* ACINA	HISEOIP	MISEOIP	MISEOIP	MIScolp	MISEOIP	SHAL COR	SMALCOR	SHALCOR	MISEOIP	MISEGIP	ロークリクーズ	MISEQIP	MISEOIP	MISEOIP COLOR	AISEGIP CMAICAG	STATE OF	100011	410UVII	9101011	MISCOL		4103018	100011	MISEGIP	MISFOLP	SMAL CO.	SMALCOR	SMAI COP	SHAL COR	ALC LANA	MICEOID	MISEOFF	MISTOR	O TOUN IN	MISFOR	MISEULD	A LAFELLE	SMAI COR	SMALCINE	SMALCOR	SMALCUR	TAPFHIL	SMALCOR	SMALCOR	
TABLE XXXI: MISEQIP COMPUTER LISTING	PROGRAM MISEUIP 73/74 DPT=1	440 CONIINUE	101-105	1056=40	00 450 [-4],80	15 (USECOLI) - EQ. 10 450			145. Coltection of the Coltect		3001-201		6 FURNATILIXIALUIZH FRE QUENCIES!		.		C READ FIRST RECORD OF EDIT SUMMARY FILE AND INITIALIZE			READ(3,3)(DEPLY(1,1),1-1,6)	3 FUMMATICAS, 2RB, 2II)	220 DO 230 I-1-6	DEPLY(2) DEPLY(1)	230 CONTINUE	•		C READ NEXT EDIT SUMMARY FILE RECORD		400	CSS NEWFOLDS STUDENTS TO SEE STORY		7-04-04-04-2	מס חות פס ח		Deposite Parameters of Annual Control of the Annual Control	CARCA TEN CONTENTS RECENTANT MONDENS IN CENTERING AND	TOTAL SELECT LESS AND	J (250			TEACH OF A THE CONTRACT OF THE			# 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		,	MOLITARITY OF TAXABLE SO STATE AND ALL ALL SOLD SOLD SOLD SOLD SOLD SOLD SOLD SO		,, .	CONTINUE	17 - C14 10 30 - 0 14 10 30 - 10 - 10 11 11 11 10 20 11 11 11 10 20 11 11 11 10 10 10 11 11 11 11 11 11 11			IF (06 Pt 7 (2 - 2) - 5 0 - 1 1 1 1 0 Pt 7 (2 - 5) = 2 H X T	265 CDN1 MUE		272 If (confr(2)=0EPLY(2,2))270,240,230	
				3					4	ò					2					22					3				4	0				Ġ	2				5	Y				197					105	;				21	•				

TABLE XXXI. MISEQIP COMPUTER LISTING (CONT) TABLE XXXI. MISEQIP COMPUTER LISTING (CONT)

: .	TABLE AAAL. MISEUT COMFUIEN LISHING	NG (CONT)	
PRUGHAN	PRUGNAM MISEGIP 73/74 UPT-1	40/01/28.	. 13.56.53
115		SHALCOR	
	FURMAT(1Xe2M5)2[4]0e45) 2Rde2(1XeA1) 1XeA2e1XeA9e1XeA5eA1 F(EOF(1)) 10e265	SHALCOR	
	110 EQUIP(1) 684993999	SMALCOR	
120 C	507 11 107 3	MISEOIP	
0		MISEOIP	
. .	C A LEN DIGIT MAICH IS FUUND C CHECK TUNING ASSIGNMENT AGAINST TUNING RANGE CAPABILITY	MISEOIP	120
		MISEOIP	
125 C	CAN TERDEBLYIS, 11.1. Fallibration In	MISEGIP	
		SHALCOR	
	275 CONTINUE	12SEP77	
1 30	IF (EQUIPALLI). EQ. OEPLY(2,5)) GD 10 2000	SMALCOR	
	ARTIE(6,20)EQUIP(1),EQUIP(2),EQUIP(11),DEPLY(2,5)	SMALCOR SMALCOR	2 7 4
	1 A2)		
47.	LING*LING*2	TAPFNTI	
664	ERFLUE FOR.	IAPFNI	
	_	FINNSOP	E .
	2000 CONTINUE	TAPENTI	
140		MISEOLP	
	[f[1U].20.0)63 TO 412	MISEOIP	
	00 410 IUSE-1, IUI	MISEOIP	
	IF(EDUIP(9).Ed.USECD(IUSE))ISET-IH/	SMALCOR	2 4 5 1 30
145		MISEGIP	
	282	MISEOIP	132
		MISEOIP	
	A20 CONTINUE	MISEOIP	
150		MISEOIP	
	430 1SE F*14*	MISEOIP	137
	IF (EQUIP(II).EQ.ZHXT)EQUIP(II).EXX.	MISSOR	
		SMALCOR	•
155	1F(1END.EJ.2)+00,220		5 1
	285 WRITE(2,1)(EJUIP(I),1-1,6),(OEPLY(2,1),1-3,4),(EQUIP(I),1-9,13),	SMALCOR	
	1 13E1 1Ff 1END, EQ. 21900, 220	FINASOP	2 55
		MISEOIP	
160	STANDED SELECTION SELECTION SELECTION OF THE MINER FIELD AND THE MINER PROPERTY OF THE SELECTION OF THE SELE	MISEOIP	P 146
ر ، ر			
U		MISEUIP	
4	290 CONTINUE	SMALCOR	25
	EXITE (6.10) (DEPLY(2.10.6).5)	SMALCUR	
	10 FORMATION NO MATCH FOUND FOR 0/2%, 245, 284, 42)	SMALCOR	
	INE INE +2	SMALCOR	
1 70		SMALCOR	95
J		MISEGI	

TABLE XXXI. MISEQIP COMPUTER LISTING (CONT)

PAGE

	PROGRAM MISEUIP	M [S & Q 11	13/74	4 UPI-1 FIN 4.8+498		80/07/28. 13.56.53	13.56.53	
						MISEOIP	183	
	J		ISI TUNING	LISI TUNING AAAGE MIS-BAICH LIENS		MISEGIP	104	
	J					MISEGIP	185	
175	_					MISEGIP	186	
		340 ME	R 1 I E 1 6 , 4) E	390 WRIE(6,4)EJUIP,(DEPLY(2,1),1-3,4)		SMALCOR	57	
		4 FL	DRING (1HO,	FORMATILHO, FTUNING MIS-MATCHE, 24X, 6AVAILABLE+/1X, 2R5,	R5,	SMALCOR	26	
		7	21A10.A51.	2(A10,A5),228,2(1%,A1),1%,A2,1%,A9,1%,A5/41%,+REUUIRED+	/+03	SMALCUR	20	
		~	41X,2R0)			SMALCOR	9	
160		7	LINE .LINE+5	•		MISEGIP	161	
		=	FILINE.GF.	IF (LINE.G1.35)CALL NEWPG(KLASS,LINE)		MISEOIP	192	
		4	ERFLGTRUE.	•		MISEOIP	143	
		=	FILEND.NE.	IF(1EM0.NE.2)60 TO 275		FINASOP	2	
	J					MISEOLE	195	
185	J					MISEOIP	196	
	J		HERE TO END JOB	807 0		SMALCOR	19	
	J					MISEGIP	961	
	U					MISEOFP	199	
		900 RE	900 REWIND 1			MISEGIP	200	
?		<u> </u>	LND FILE 2			MISEGIP	201	
		8	REWIND 2			MISEOIP	503	
		*	MENIND 0			MISEOIP	202	
		1	1F (ERFL & 1904, 901	04,901		TAPFHIL	5 2	
			WR [IE (6, 302)	(2		TAPFHIL	\$2	
195			JRMA F C+ ONO	FORMATI + ONO CRROAS DETECTED BY MISEQIP+)		TAPFHIL	76	
		404 CA	ILL NEAPGL	CALL NEWPGIKLASS, 99991		17NOV74	22	
		Ţ	END			MISEGIP	218	

(CONT)
LISTING
COMPUTER
MISEOIP
XXXI.
TABLE

. 7	SUBMUUITNE NEAPG	71111 9	UPI-1	80/07/24. 13.56.53	13.56.53	PAG
-		SUBROUTINE NEWPG(K+L)	1) AND GREEN	MISEOIP	516	
	ں			MISFOLP	220	
	J			MISFOLP	22.1	
	J	THIS SUBROUF	THIS SUAROUTINE PROVIDES PAGING AND CLASSIFICATION FOR PRINTED	MISEGIP	222	
^	Ų	UUTPUT		MISEOIP	223	
	J			MISEGIP	528	
	J			MISEOIP	525	
	J	L INPUT	. 9949 PRINT BOTTOM OF PAGE UNLY	MISEOIP	526	
	J	- INPUT	L INPUT . O PRINT TOP UF PAGE ONLY	MISEGIP	227	
9	U	LINPUT	INPUT - ANY DIMER NUMBER PERFURM NORMAL PAGING	MISEGIP	228	
	J			MISEGIP	529	
	ں			MISEGIP	230	
		DATA IPAG/1/		MISEOIP	182	
		IF(L.E0.0)60 ID 10	10 10	MISEOIP	232	
Ċ.		#RITe 16, 11K		MISEOIP	233	
	-	FURNAT (+ - + + 634, A10)	14, A10)	SMALCOR	62	
		IF (L.EU. 9994) RE TURN	DRETURN	MISEGIP	235	
	2	10 WRITE (6,21K, IPAG	IPAG	MISEGIP	236	
	7	FORMAT (1H1 + 63	2 FORMAT(1H1,63K,A10,54K,+PAGE+,14)	MISEOIP	237	
2		IPAG. IPAG. 1		MISEGIP	238	
		!• 1		MISEOIP	239	
		RETURN		MISEUIP	240	
		END		MISEGIP	243	

SECTION 10 - PROGRAM ECUPDT 17

10.1 PURPOSE

Program ECUPDT 17 adds new data records or makes changes to the data records presently contained in the master equipment class code assignment file.

10.2 PRINCIPAL FUNCTIONS

Program ECUPDT, shown in figure 37, accepts as input the old master equipment class file, together with equipment class update cards, and outputs an updated master equipment class file for use in program MISEQIP 16.

The principal functions of program ECUPDT are as follows:

- a. Inserts, in proper sequence, data contained in update cards for new equipments.
 - b. Deletes data records for old equipments.
 - c. Modifies data fields in existing equipment records.
- d. Prints updates, errors, and the updated master equipment class code assignment file in various selected sort orders.

10.3 INPUT/OUTPUT DESCRIPTION

Input to program ECUPDT consists of two program control cards, update data cards, and the old master equipment class file. Output is the updated master equipment class file for input to program MISEQIP 16. A report section generates a listing of updates, errors, and the new equipment class file in various sorts.

10.3.1 Input Format

The format of input data for program ECUPDT is given in the following figures and table:

- a. Program control card, figure 38, page 10-4.
- b. Print option card, figure 39, page 10-5.
- c. Update data card (26), figure 40, page 10-6.
- d. Master equipment class code assignment file 24, table XXXII, page 10-10.

10.3.2 Output Format

The format of the updated master equipment class code assignment file (24), output by program ECUPDT, is given in table XXXII, page 10-10.

10.4 PROCESS DESCRIPTION

- a. Program ECUPDT is written in COBOL for processing on the CDC CYBER 172 computer and requires 100000_8 words of central memory for execution.
- b. The program reads all the update records into storage and sorts them on the first 10 characters in the record.
- c. Each update record is compared in order with the old master equipment class file. If no match is found, the update record is added to the updated master equipment class file. If a match is found, all fields on the update are checked for modifications and the modified record is output to the updated file. If there is a match but no modifications, the record is deleted from the updated file. This procedure is repeated until all updates have been processed and the updated master equipment class file is completed. Data are edited for validity and an error report is generated. The new updated file is then printed.

10.5 PROGRAM OPERATION

Figure 41, page 10-13, is a listing of all system and UPDATE cards necessary to execute ECUPDT for a typical computer run.

10.6 LIMITATIONS

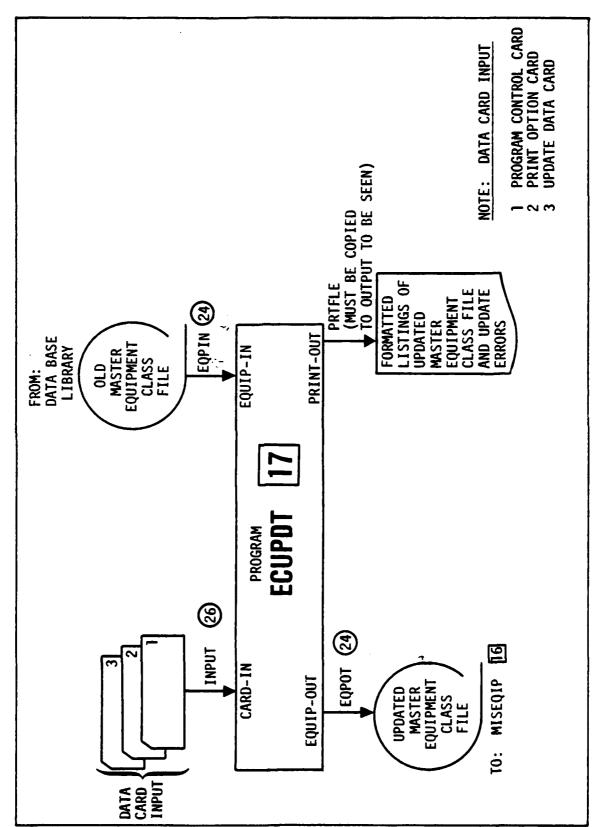
There are no program limitations.

10.7 RUNNING TIME

Running time is estimated at 1 minute per 100 update records.

10.8 COMPUTER PROGRAM LISTING

Table XXXIII, page 10-14, is a complete computer listing of program ECUPDT, annotated to aid in the understanding of the program functioning.



•...

Figure 37. Program ECUPDT, functional block diagram.

FIELD DESCRIPTION	CLAS. Must be as shown to identify card type.	Security classification of data to be used in page headings.						
MINEMONIC	CD-TYP	CD-DTA						
BCD FORMAT	A4	2A10						
CARD COL	1-4	6-25						
FIELD NO.	-	7	·				<u> </u>	·• ·····

Figure 38. ECUPDT input, program control card.

FIELD DESCRIPTION	REPT. Must be as shown to identify card type.	A 1-digit code (1 to 7) specifying the sort	of the master equipment class code assignment	order from major to minor data fields are as		<pre>l = Equipment class code, component code, major equipment code, modulation code, number of channels</pre>		<pre>2 = Component nomenclature, component code, major equipment code, modulation code, number of channels.</pre>	<pre>3 = Component code, major equipment code, modulation code, number of channels.</pre>	<pre>4 = Major equipment nomenclature, component code, major equipment code, modulation code, number of channels.</pre>	<pre>5 = Low limit of tuning range, component code, major equipment code, modulation code, number of channels.</pre>	<pre>6 = Modulation code, component code, major equipment code, number of channels.</pre>	<pre>7 = Major equipment code, component code, modulation code, number of channels.</pre>
MNEMONIC	CD-TYP	R-NUM(1)	R-NUM(2)	R-NUM(3)	R-NUM(4)	R-NUM(5)	R-NUM(6)	R-NUM(7)					
BCD FORMAT	A4	A1	Al	Al	Al	A1	A1	Al					
CARD COL	1-4	9	80	10	12	14	16	18					
FIELD NO.		2	٣	4	\$	9	7	∞					

Figure 39. ECUPDT input, print option card.

FIELD NO.	CARD COL	BCD FORMAT	MEMONIC	FIELD DESCRIPTION
7	1-3	A 3	S-1	A 3-character alphanumeric code assigned to the equipment component.
7	4-5	A 2	S-2	A 2-character alphanumeric code assigned to the major equipment class.
m	6-7	V	S-3	A 2-digit code indicating modulation type: 33 = F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = F9, 50 = P0, 58 = P9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.
4	8-10	A3	8-4	The number of channels assigned for this equipment component, if applicable. If subfield 8 \(\sigma \) , the equipment is encrypted.
'n	11-25	A10,A5	S-5	Nomenclature of the equipment associated with this component code.
9	26-40	A10,A5	9-S	Nomenclature of the equipment associated with the major equipment code.
	41-48	4 8	S-7	Lowest frequency (in kHz) to which this equipment will tune.
&	49-56	48	S-8	Highest frequency (in kHz) to which this equipment will tune.
6	58	A1	6-S	A 1-character alphabetic code indicating the use type of equipment: B = broadcast/television, C = communications, D = direction finding, E = fixed frequency emergency guardband, I = intercept/ESM, J = jammer/ESM, M = sensors,

Figure 40. ECUPDT input, update data card (26) .

7

7

To add new equipments, fill in all fields. To modify old equipments, fill in data for fields to be modified and columns 1-10. To delete old equipments, fill in columns 1-10 only.

Figure 40. ECUPDT input, update data card (26) (cont).

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File Descri	ption: Master Equip	oment Class Code Assignment File 24
	EQPIN/EQPOT	EQUIP-IN/ Logical Unit: EQUIP-OUT
Mode/Type:_	BCD	Record Length: 80 characters
Origin:	Basic data file (GENEC3) maintained by ECUPDT
Used By:	MISEQIP 16 ; ECU	JPDT 17
Note: The	file is sorted in :	accending order on characters 2-11

TABLE XXXII. MASTER EQUIPMENT CLASS CODE ASSIGNMENT FILE (24)

Data Description	Field Size	Field Position	Remarks
	,1	П	Blank
Component code	m	2-4	A 3-character alphanumeric code assigned to this equipment component.
Major equipment code	2	9-9	A 2-character alphanumeric code assigned to this major equipment class.
Modulation code	2	7–8	A 2-digit code indicating modulation type: $33 = F3$, $13 = A3$, $14 = A3A$ or $A3J$, $31 = F1$, $36 = F9$, $50 = P0$, $58 = P9$, $18 = A2$, $12 = A9$, $11 = A1$. Other codes for specific types may be used occasionally.
Number of channels	8	9-11	The number of channels assigned for this equipment component, if applicable. If subfield 9 > 5, the equipment is encrypted.
Component nomenclature	15	12-26	Name of the component associated with this component code.
Major equipment nomenclature	15	27-41	Name of the major equipment associated with this major equipment code.
Low tuning range limit	&	42-49	Lowest frequency (in kHz) to which this equipment will tune.
High tuning range limit	&	50-57	Highest frequency (in kHz) to which this equipment will tune.
	1	58	Blank

TABLE XXXII. MASTER EQUIPMENT CLASS CODE ASSIGNMENT FILE (24) (CONT)

· · ·

Data Description	Field Size	Field Position	Remarks
Use code	-	29	A 1-character alphabetic code indicating the use type of equipment: B = broadcast/television, C = communications, D = direction finding, E = fixed frequency emergency guardband, I = intercept/ESM, J = jammer/ESM, M = sensors, N = navigation aids, O = orderwire, Q = miscellaneous special purpose, S = detecting/range bearing (radar), V = sensor data link, X = IFF, Y = security monitoring (COMSEC, etc.), Z = special electronic warfare (EW). Other codes are assigned as needed.
	-	09	Blank
Force code	-	61	A 1-character alphabetic code indicating force type: B = BLUE (friendly), R = RED (enemy).
	T	62	Blank
XY code	7	63-64	A 2-character alphabetic code indicating equip- ment type: XX = transmitter only, XY = trans- ceiver, YY = receiver only.
	1	65	Blank
New equipment class	6	96-74	Expanded equipment class for future development. Not presently used.
	-	7.5	Blank

TABLE XXXII. MASTER EQUIPMENT CLASS CODE ASSIGNMENT FILE (24) (CONT)

Data Description	Field Size	Field Posttion	Remarks
Equipment class code (last 5 of 6 digits)	٧	76-80	A 5-digit code assigned to indicate the equipment class when the data set code is attached as the first of a total of 6 digits. The final 5 digits are assigned as follows:
			Subfield 76. Modulation code: 1 = F3 = 33, 2 = A3 = 13, 3 = A3A or A3J = 14, 4 = F1 = 31, 5 = F9 = 36, 6 = P0 = 50, 7 = P9 = 58, 8 = A2 or A9 = 18 or 12, 9 = A1 = 11, 0 = special or other.
			Subfield 77. Bandwidth: For modulation codes 1-5 and 8, 9, 0: 1 = narrow, 2 = medium, 3 = wide, 4 = very wide; for modulation codes 6 and 7: 5-9 and 0 indicate different "B" matrices.
			Subfield 78-79. Sequence number: 00-99 = final specific equipment designator within modulation code and bandwidth.
			Subfield 80: Siting preference: 1 = normal, 2 = normal, 3 = airborne radar, 4 = ground radar, 5 = preferred, 6 = airborne nonradar, 7 = radio relay (LOS), 8 = nap of the earth, 9 = troposcatter, 0 = satellite.

=	EGPUPULITY.	UPDATE
(2)	USEALOO USER ID OO)	
7	CHARGE (MADDD.N.)	
;	COMMENT	
2	COMMENT. TASK NAME	
7	COMMENT. EQUIP CLASS UPDATE	
12	COMMENT	
1	GET (EQP.EQPUPOU.NA)	
;	UPDATE (P.EQP.Q)	
101	COBOL5(1.COMPILE, B.EQPUPD)	
11)	GET (EQIN - ALL EQCS)	
121	FILE(E01N, B1 = C, R1 = L, FL = 80)	
133	F111 (£ 001, 81 aC, 81 aZ, F1 a 80)	
14)	EJPUPD.	
151	REPLACE LEGIN ECCURPS)	
101	REPLACE (EQUIT-ALLEUCS)	
171	COPYCF (PRIFLE, DUTPUT)	•
18)	7-6-4 CARO	
161	4/ TASK CHANGES FOR ECUPOT (IF ANY)	
201	*COMPILE ECUPOT	
21)	7-8-9 CAND	
(22)	CLAS SECRET	
23)	KEPT 1,2,3,4,5,6,7	
24)	*** INSERT UPDATE DATA CARDS HERE	
152	7-8-9 CARD	
261	6-7-8-9 CARD	

TABLE XXXIII. ECUPDT COMPUTER LISTING

PAGE

#0/ 07/29. 13.25.42.	7 F F C C C C C C C C C C C C C C C C C	2 4 3 5 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8		77777222222222
Đ	6CUP01 6CUP01 6CUP01 6CUP01 6CUP01 6CUP01 6CUP01			
ADPT- 66/CDC/CDC51	•			
SJUNCE LISTING OF ECUPDI	DW DIVISION. ECUPOT. USSEN. DIVISION. DIVISION. TER. 6500. TER. 6500. T. S.	01. CAKO-IN ASSIGN TO INPUT. EQUIP-IN ASSIGN TO EQIN. EQUIP-UNI ASSIGN TO EQIT. PKINI-OUT ASSIGN TO PRIFLE. SOMI-FILE ASSIGN TO DISKI. SOMI-FILE ASSIGN TO DISKI. OUN. NECONDS AME UMITTED ECURO IS COIN.	**** O ******	*****
31 5.3 - LEVEL 448	LUENTIFICATION DIVISION. PRUGRAN-10. ECUPDI. AUTHOR. RASMUSSEN. DATE-CONPILED. LUNT ZOUNFILED. CUNFIGURATION SECTION. SUUNCE-COMPUTER. 6500. UBJECT-COMPUTER. 6500. SPECIAL-NAMES. AJUIPUT SECTION.	NELECT CA SELECT CA SELECT S SELECT S SELECT S SELECT S SELECT S SELECT S SELECT S SELECT S SELECT S SECTION S CARD-IN S CARD-	FILLE FI FILLE FILLE FILLE FILLE FILLE FILLE FILLE FILLE FILLE FILLE FIN	02 6-7 02 6-4 02 6-4 02 6-10 02 6-10 02 6-10 03 6-13 P 03 6-13 P 03 6-13 P
CDC COBJE		252222222222222222222222222222222222222		0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -

TABLE XXXIII. ECUPDI COMPUTER LISTING (CONT)

PAGE

ECUPDI RECURDS ARE DMITTED RECURDS ARE DMITTED RECURDS ARE DMITTED RECURDS RECU																													
Full	55 55 56 56 50	60	6.0	5 9 5	2 2	2 .	22;	2%	22	77	7.	8 9	83		\$;	9 6	600	6	6	3	5.6	7	*	3 6	100	102	103	5 2	106
	ECUPOT ECUPOT ECUPOT ECUPOT	ECUPOT ECUPOT	ECUPOT ECUPOT	ECUPDT ECUPOT	ECUPOT FCUPOT	ECCP01	ECUPOT FCUPOT	ECUPOT	ECUPOT ECUPOT	ECUPUT ECUPUT	ECUPOT	ECUPOT	ECUPOT	ECUPOT ECUPOT	ECUPOT	ECUPOT FCUPOT	ECUPOT.	ECUPDI	CCUPOL	ECUPOT	LCUPDT	ECUPOR	ECUPDI	ECUPOT	10001	ECUPOL	ECUPOT	ECUPOT	ECUPOR
															AUDITS.														
	60													0	UIP-RPI	E0													
	OMITTED	, ,	• • •	• •	• •	. •		• •						OMITTED	KPF EUUIP-RPT		I-ERK.	•			•		. •	•		. •	•		
	X(J1). JS ARE OMITTED JS EUPOT.	KCOLD.		X(03). X(12).	X(08).	,		x(01).	200	100		x(01).	7(01).	35 ARE UMITTED	CAND-KPT EQUIP-RPT	ARE	IS SRF-WRK.	x(01).	3	X(02).	x(02).		•	•		3	_		
	IC XC UADS WD IS	PIC XCOLD.	===			. × ;	× × ;	X	x(05) x(01)	(10)x		ر ان د	2 2	IUT IECJADS ARE UMITTED	ARE CAND-HPF EQUIP-RPT	ARE	CORD IS SRI-WRK.	210		. X	¥;	22	×	× ;	2 2	(10)× 31) × 0	2 2	1C X (02)
	IC XC UADS WD IS	UPOI. ILLER PIC X(UI).		014		LLER PIC X	LER PIC X	LER PIC XI	PIC X(02) LER PIC X(01)	PIC X(34)		ر ان د	2 2	KINT-DUT Aðel keggads ar _e omitted	EPORTS ARE CARD-HPT EUUIP-RPT	ARE	ATA RECORD IS SRI-WRK.) l d		P I C X (2 214) I V	× JI	PIC X		PIC X(01)	P 10 x 1		PIC X1021
	E-13D PIC XC EQUIP-OUT LABEL RECURDS DATA RECURD 1S		2 PIC XC	P1C		ILLER PIC XI	ILLER PIC X	ILLER PIC XC	III PIC X(02)	ILLER PIC X(03)	113.	E138 PIC AC	03 E13C F1C X			LASEL RECORDS ARE	CATA RECORD IS	2 FILLER PIC	A-KEY.	1 402 PIC X	HU3 PIC XC	40> PIC 40	MOO PIC X	NO7 PIC X	FILEP PIC X	403 PIC X(01)	FILLER PIC XI	FILLER PIC AC	TITE PIC X (02)
	E-13D PIC XC EQUIP-OUT LABEL RECURDS DATA RECURD 1S		2 PIC XC	P1C		ILLER PIC XI	ILLER PIC X	ILLER PIC XC	III PIC X(02)	ILLER PIC X(03)	113.	E138 PIC AC	03 E13C F1C X			LASEL RECORDS ARE	CATA RECORD IS	2 FILLER PIC	A-KEY.	1 402 PIC X	HU3 PIC XC	40> PIC 40	MOO PIC X	NO7 PIC X	FILEP PIC X	403 PIC X(01)	FILLER PIC XI	FILLER PIC AC	1111 PIC X(02)

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LISTING (CONT)	51 80/07/29, 13.25.42.	ECUPOT 110		FCUPOL 112			ECUPOT 116		CCUPUL LIS					ECUPOT 124		ECUPOT 127	ECUPOT 128			ECUPUL 131		_	_				ECUPO1 134		ECUPOI 142	_			ECUPOI 140			ECUPOT 150						ECUPOT 157	_		ECUPOT 161		ECUPOI 163
TABLE XXXIII. ECUPDT COMPUTER LISTING	IG UF ECUPOT AUPT. 66/CDC/CDCS1						SRT-KEC.								•		*17*	7017		*****	2012	1376	#36#	1001		.784.		ACOUNT TARM ASSAULT					TOCOCCOR HARL MODOUTION		, , ,	#000000000 [HRU #9494999#.		,				1E		,			
TABLE	COBOL 5.3 - LEVEL 478 SUUMCE LISTING OF ECUPOF		#134 P1C	ON THE PARTY OF TH	W130 PIC	HI-FILE	DAL RECORDS ARE SHI-RCD SRI-REC.	•	02 S-RCDG1	•	02 FILLER PIL KIOLD.		9	03 5-2 PIC #(02).	A DIP CALLED CALL	445-33											0.5 S = 4	10 AR-124 AR-02	02 5-2-13.	2-	PIC X41	5-7 PIC X(08	db VAL-S/ VALUE	03 S-8 PIC X(0d).	BB VAL-SB		03 FILLER PIC 4(01).)14		O3 FILLER PIC 4(01).	S-10 PIC A(U)	89 VAL-510) I d	11-S	446-311	FILLER PIC	03 S-12 PIC X(09).
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0.1 FILLER PIC KIOLI. 0.2 FILLER PIC KIOLI. 0.3 S-13A PIC KIOLI. 0.4 S-13A PIC KIOLI. 0.5 S-13A PIC KIOLI. 0.6 S-13A PIC KIOLI. 0.7 S-13A PIC KIOLI. 0.8 S-13C PIC KIOLI. 0.9 PIC KIOLI	5.s - LEVEL 498 SOURCE LISTIN	G OF ECUPOR	AOPT- 66/COC/COCS1		u0/01/21.
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		FOR THRU		ECUPOL	171
10	316 361-5			FCHPOT	17.2
11C (101). 12	NA VAL-S13C			ECUPOT	173
10				FCLIPOT	174
### ### ##############################	214 011-5			FCHPDI	175
# 1	AB VALACIAD			FCUPDI	176
### IMEN #5# FECUPOT F		MAN TANKE		ECUPOT	177
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### ##################################	SESS VALUE	ERO.		ECUPOL	182
	MIN VALUE	ERO.		ECUPOT	163
17.1 VALUE ZERO. 17.1 FIMES INDEXED BY R. 18.1 FIME	JULY VALUE	ERO.		ECUPOT	184
17.1 VALUE ZERO. 17.1 V	SCZI VALUE	ERO.		ECUPOT	185
### ### ##############################	JEZI VALUE	ERO.		ECUPOL	186
### ### ##############################	PITI VALUE	ERD.		ECUPOT	187
### WALUE ZERU. ####################################	SEZE VALUE	EKO.		ECUPOT	188
### ##################################	ALLI VALUE	• • •		ECUPOI	189
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### ### ##############################	(10)	ZERU.		ECUPDI	761
### PIC X(02). 1-vv	01 DAITI.			ECUPOT	193
DI-4M PIC K(02). DI-DD PIC K(02). ECUPOI EUNINI PIC KII). EN POSSIJO PIC KIII. EN POSS	JI-YY PIC			ECUPOT	194
ECUPDI E	31-4M P1C			ECUPOT	145
### ##################################	01-00 PIC			ECUPDI	196
### DCCURS 7 FIMES INDEXED BY R. ##NUM PIC X(1). ##NUM PIC X(1). ##NUM PIC X(1). ##PDS3 PIC X(1). ##PDS5 PIC X(1).	REPT-TYP.			ECUPDI	197
# FILLER PIC X(1). # FILLER PIC X(1). # FILLER PIC X(1). # FOUND: # FOUN	K-IYP OCCURS	EXED BY R.		ECUPOT	198
EKAPOS. EKA	A-NUM PICK			ECUPDE	661
EMPDS3 PIC K(2). EMPDS3 PIC K(2). EMPDS4 PIC K(1). EMPDS5 PIC K(1). EMPDS5 PIC K(1). EMPDS7 PIC K(1).	OB FILLER PIC ACID.			F C UP D I	200
EM-POS3 PIC K(2). EM-POS4 PIC K(1). EM-POS5 PIC K(1). EM-POS5 PIC K(1). EM-POS7 PIC K(1). EM-POS9 PIC K	O1 : 44-905.			ECUPDI	201
E4-POS PIC K(13). E6-POS PIC K(13). E6-POS PIC K(13). E7-POS PIC K(PIC			ECUPOI	202
EX-POSS PIC X(12). EX-POSS PIC X(12). EX-POSS PIC X(13).	. 1			FC16P0 I	203
EK-POSS PIC 4(15). ER-POSS PIC 4(16). EK-POSS PIC 4(1). ECUPOT ECUPO	3			FCUPDI	204
ER-POST PIC A(d). ER-POST PIC A(d). ER-POST PIC A(d). ER-POST PIC A(d). ER-POSTU PIC A(l). ECUPOI EC	. 6			FCHPDI	202
EK-POSS PIC X(1). ECUPOI ECUPOI ECUPOI ECUPOI ECUPOI ECUPOI ECUPOI ECUPOI SEX-POSS PIC X(1). EK-POSS PIC X(1). EK-POSS PIC X(1). ECUPOI SXT-IYP-IXI.				FCHPOI	200
EM-PUSOU PIC X(1). EM-PUSIO PIC X(1).	0			FCLPDI	207
ER-POSIO PIC X(1). ER-POSI3. ER-POSI3. ER-POSI3. ER-POSI3. ER-POSI3. ECUPOI ECUPOI ECUPOI ECUPOI ECUPOI ECUPOI A PIC X(1). EX-POSI3.	. 6			FCUPDI	208
ER-POSII PIC A(2). ER-POSI3. LM-POSI3. LM) i d			FCHPDI	506
EM-PUSI3. EM-PUSI3A PIC A(1). EM-PUSI3A PIC A(1). EM-PUSI3A PIC A(1). EM-PUSI3A PIC A(1). EM-PUSI3B PIC A(1). EM-PUSI3B PIC A(1). ECUPOI	914			ECUPOT	210
LKM-PUSI3A PIC K(1). EK-PDS13d PIC K(1). ECUPDI SER-PUSI3U PIC K(1). ECUPDI ECUPDI ECUPDI ECUPDI ECUPDI				ECUPOT	211
1 EX-POSIBA PIC XII). 5 EX-POSIBA PIC XII). 6 CUPDI	210			ECUPDI	212
3 EX-POSIJC PIC X(2). 5 EX-POSIJD PIC X(1). 5 SAT-IYP-IXI.	EN-POS134 PIC			ECUPOT	213
JEM-POSIJU PIC ACI). ECUPOI SAT-IYP-EAI. ECUPOI	EX-POS13C P1C			ECUPOT	512
SAT-TYP-IAI. ECUPDI	3 EM-POS130 PIC			ECUPOI	215
	SAT-IYP-IAI			ECUPOT	216

TABLE XXXIII. ECUPDT COMPUTER LISTING (CONT)

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COLUMN 1 2 2 3 4 4 5 5 6 7 8 9 1 2 3 4 5 6 1 5 7 8 9 6 1 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 9 1 2 3 4 5 6 7 8 9 1 2 3 4 6 7 8 9

TABLE XXXIII. ECUPDI COMPUTER LISTING (CONT)

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						H	ABLE	TABLE XXXIII.	ECUPDT	ECUPDI COMPUTER LISTING	LISTING	(CONT)	
כמכ כחמטו	5.3 -	LEVEL 498	87	V1	3.00 K (SE L1S	9N11:	SOURCE LISTING OF ECUPOT	AUPT-	AUPT. 66/CDC/CDC51	-	80/07/24. 13.25.42	5.43
373		S	EOI URA	0.0	016	X (06)	10 147	F ACHANI SA			FCHPOI	272	
212		6			7	x(12)	A(12) VALUE	C ANDMENCLATURE .	TURLA.		ECUPOT	273	
273		03	COLUMN	440	PIC	X(12)	VALUE	E ANDRENCLATUREA	IURE4.		ECUPOT	274	
274		3	COLUMN	072	PIC	x (00)	VALU	E ATUNINGA.			ECUPDI	275	
522		S	COLUMN	180	214	(90) x	NAL U	- TONINGE.			CONDI	276	
276		6	といってつ	750	٥ ا	() ()	AALU	E /C006/			ECUPOT	211	
112		50	NEOTO	260) i	() () () () ()	746	E *CODE*			COPDI	273	
9/2		÷ ;	יייייייייייייייייייייייייייייייייייייי			4103	VALUE	E ALLASSA.				517	
240		3 6	TO THE LET	3 6		X (04)		F ACODE #.			FC 120 D 7	283	
7 P Z		0	CULUMN	072	2	X (0) X	VALUE				ECUPOT	282	
282		6	COLUMN	180	2	x (05)					ECUPDI	543	
293		03	O3 COLUMN 111 PIC X	111	P I C	x (04)	VALUE				ECUPOT	584	
244		02	LIME PLI	15.2.						•	ECUPDI	285	
265		ŝ	us column old pic x	010	2 6	(63)	VALUE	E #1-3#.			ECUPOI	2.5	
24.7		ŝē		3 2	: בי	X COS					FC11901	78.K	
263		6	COLUMN	0.00	2 2	100 ×	VALUE				ECUPOT	289	
583		60	COLUMN	0.38	2	X (05)	VALUE	E #11-254.			ECUPDI	2.50	
2 30		69	CULUMN	055	2	x (05)	VALUE				ECUPOT	162	
112		60	COLUMN	072	P.I.	1105)		E 441-484.			ECUPOT	262	
262		ô	COLUMN	081	916	x (02)	VALUE	E #43-564.			ECUPOT	243	
293		6	CULUM	160	2	X (02)	X102) VALUE	E #58#.			ECUPOT	567	
576		ŝ		60	= 3	X (02)	747	E #604.			ECUPOT	292	
642		3 3		<u>.</u>	2 0)	E #02-038.			ECUPO1	207	
237		3 2	DETAILED TYPE	;	٠.	10011	AALO	TO DETAIL THE DISC 2.			101010	200	
2.58		3			2 2	13 OX		F S-1.			ECUP01	299	
536		020	COLUMN	910	2	(02)	2002	S-2.			ECUPDI	300	
300		020	COLUMN 023 PIC A	323 6	2	(05)	SJUACE				ECUPOT	301	
301		05 (COLUMN	030 £	2	(53)	SJURCE	E 5-4.			ECUPDI	302	
305		05	COLUMN	938	2	(1)	SOURCE	£ 5-5.			ECUPOL	303	
303		20	COLCAN	055	_ `	120	SOUTCE	. v-6.			ECUPOT	304	
• • •		3		7	. ·		SUURLE					305	
		2 6		100	ָ 						FCGTDT	300	
101		020	COLUMN	7	2	x (01)		£ 5-10.			ECUPOL	308	
304		05 (LULUMN	10,01	2	(105)	SOURCE	SOURCE S-11.			ECUPOT	309	
50%		0 0	COLUMN	111	2	x (05)	SOURCE	E S-13.			ECUPDI	310	
016		7	OF TAIL-(2 :	_ :	IS OF I	A L	AIL LINE PLUS 1.			ECUPOT	311	
311		3		200	2 :		VALUE	VALUE FOURTKUKEFF	•			216	
716		200			, ,	1201	SUURC	SHURCE ERITORS.			Togoth	716	
314		20		2 2 2	ב ב	(20)	2000	SOUNCE ER-POSS.			ECUPOT	315	
315		20	COLUMN	355 6	2	(212)	SOURCE	1 R-P056.			ECUPDI	316	
316		05 (COLUMN	372 6	2	((0))		SJUNCE ER-POST.			ECUPOT	317	
31.7		05 (COLUMN	9 100	214	(PO) x		SIUNCE EK-PUSB.			ECUPOT	316	
310		70	ניורחשו	160	2	(10) x	SOURCE	SOURCE ER-POST.			ECUPDI	319	
216		27		7.60	٠ -	(10) x		SUUNCE ER-PUSIO.			ECUPOT	320	
320		20	COLUMN 104	3		(105)		SOUNCE EN-POSING			ECUPIDE	321	
322		7 6	COLONG 111 PIC] [1, 06		SCORLE EK-FOSIS.				325	
123				010		(04)		SOURCE DAPT.			ECUPOT	326	
324				PAGE	Ξ	FIJULING		61.			ECUPOT	325	

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326	327	328	329	010			316	333	336		930	337	338	339	040	36.1	***	270	776	•		0.50	2.56	348	349	350	351	352	353	354	355	350	357	358	359	360	361	362	363	364	408	366	191	368	496	370	171	372	373	374	375	376	377		379
			ECUP01	FCUPOT			e cole o l	ECUPOI	ECUPOT 1		-	ECUPOT	ECUPOT	ECUPOT 3	FCUPDI					_							ECUPOT 3	ECUP01	_	ECUPOT								Ecupot 3	ECUPOT		_		ECUPUT	ECUPOT	ECUPOT	ECUPOL			ECUPOT 3	ECUP01	ECUP01	ECUP0T 3			
A120) SUURCE CLASI.	D4) VALUE APAGE4.	CULUMN 105 PIC 1229 SUURCE PAGE-COUNTER OF CARD-RPI.		V 127 -						• • • • • • • • • • • • • • • • • • • •		X120) SOURCE CLASI.	XIO4) JALUE APAGEA.	22224 SQURCE PAGE-COUNTER OF EQUIP-RPT.		KERRY WALLE AMANTER EMITPHENT CLASS CODEA.					SUURCE		KIOZI SOURCE DI-YY.		XIO?) VALUE SORT BYA.	X(20) SOURCE SRT-TYPE (S).		X109) VALUE ACUAPONENTA.	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE			MID4) VALUE #CODE#.	X(12) VALUE #NOMENCLATURE#.	VALUE	AII2) VALUE ANJMENCLATUREA.		KIO6) WALUE ACIAMISA.		X(04) VALUE #HIGH.	VALUE	VALUE	VALUE	VALUE	AIL LIN	KIU3) SOURCE 401.	K(15) SJURCE #05.	SHURCE		
02 CULUMN 050 PIC A1201 SUURCE CLASI.		٠.	30 E CULP-RP1		THE ADMINISTRATION OF THE PROPERTY OF THE PROP	T DEIONGE	PIKE DE LAIL SO	LAST DETAIL 58	FOLLTIME AD		. I. At. 1.	OF COLUMN 360 PIC XC	O3 CULUMN 110 PIC XC	03 CULUMN 115 PIC 22	INF PLUS 2.	Contracts on a sec	Die tree man res	DIA GEO MANIES	THE CALL MAN LOS	במניסטא מפני גוני	COLUMN 083 PIC	CULUMA 085 P.C.	_		OF COLUMN 050 PIC XC	O3 COLUMN 058 PIC XC	UZ LINE PLUS 2.	US COLUMN OIS PIC XC		COLUMN 057 PIC	COLUMN 064 PIC	CALUMN 073 PIC	COLUMN 092 PIC	COLUMN 09d PIC	COLUMN 105 PIC	COLUMN 111 PIC	02 LINE PLUS 1.		US COLUMN OLG PIC XC) 	PIC	D3 CULUMN D27 P1C AC	US CULUMN OBS PIC AC	03 COLUMN G72 PIC AL	COLUMN 062 PIC	COLUMN 092 PIC	CULUMN 034 PIC	COLUMN 104 PIC	CULUMN 111 PIC	OI DETAIL-EL TYPE IS DET		CULUMN 016 PIC	CULUMN 033 PIC	210 250 250	
¿20	326	127	328	323		3 .	331	332	223	P 0 0	132	336	337	333	210	040		_ ~	245	•	P	343	346	34.2	349	349	350	351	35.2	15.3	354	33	326	357	154	959	360	lot	102		964	302	160	191	PSI	153	0/6	371	218	373	37.	17.	370		

TABLE XXXIII. ECUPDI COMPUTER LISTING (CONT)

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(CONT)	80/07/29. 13.25.42.	380	381	382	383	384	385	366	200	20 70 70 70 70 70 70 70 70 70 70 70 70 70	200	200	392	3+3	394	395	396	397	20 C	704	, C	405	403	*0*	405	909	\0.0°	0074	014	411	412	413	7 m 5	41.5	017	2017	419	420	125	422	163	272 102	424		428	454	430	16.5	V (F)	
LISTING		ECUPUL	ECUPOT	EC UP 0 T	ECUPOL	ECUPOT	ECUPUT	ECUPOL	ECUPOT	ECOPO1		10000	ECUPOT	ECUPOL	ECUPOT	ECUPDE	ECUPOT	ECUPOT	ECUPO!	101019	FCUPDI	ECUPOF	ECUPDI	ECUPOF	ECUPOT	ECUPOT	EC 0701	100101	ECUPOL	ECUPOT	COPOT	ECUPDI	ECUPDI		10010	ECUPOT	ECUPOT	ECUP01	ECUPOL	ECUPOT	10000	EC.0701	10000	ECUPOL	ECUPUT	ECUPOT	LCUP01	ECUPOI	LO GO	
I. ECUPDI COMPUTER LISTING	0f AUPT - 66/C0C/C0C51									• 1	ALCHI WALUE PPACER.	-contract of good-								FROSTS FOR EMITTERS FILEF.							AND STAFF	CARUS LAT.		VALUE ADATA CARDS IN ERRORA.	. a.a.		VALUE ADATA CARDS TO SORTA.	•	ME SECTION TAKE	SOURCE CI-EIN.	•	VALUE MEGUIPMENT RECOMOS DELETEDM.	١٠.		VALUE FEJUIFMENT MELUKUS AUDEUF.	.00	ACREMAND PROPERTY AND	VALUE OF TORREST		VALUE AERRORS BURING UPDATEA.	. ~ ~ ~		4(21) VALUE FEUULFAENI KELUKUS JULF. 4107) Sünkce CT-EDT.	
TABLE XXXIII.	LISTING OF ECUPOF		SOURCE WO7.				SOURCE WII.		NE 61.	PIC X(20) SOUNCE CLASI.	ALUE PPAGE	ממרני יאפני								VALUE AUDUATEA.					SOURCE DI-TY		ANT SUBSTITUTE TABLE THE	ALLSI VALOE YOU'S KANA	Target Car	ALUE #DATA	SOUNCE CI-ERR.		ALUE ADATA	SUUNCE CI-SKI.	A) 100 42 000 f	OURCE CI-E		ALUE AEQUIF	OURCE CT-DE		ALUE FEJULA	JUNCE CITAL	A1 1). 41 Out 1	JARCE CI-C		ALUE AERRO	ישאכב כו-חי		ALUE FEUUIV	1
TAB	SOURCE CISTI	P.10 41033 S			C X(01) S	C ×1011 S	C x(02) S	C K(02)	TAPE IS PAGE FULLING CINE OF	(X (Z 0) X 2			S TIMES	! !	0			E AU ING.		(40)	x (0 2)	x (01)	(20) X	x (01)	C X (02) S	IS DETAIL				(61)	(101)		(18)	3	10.53	200		(22)	(0)		(52)		11251	(20)	•	X(23)	X (07)			
	200	, 90	072	082	260	70		I III PI	<u>.</u>		2 :		PAGE LIMIT IS BUILINES	107	FIRST DETAIL 10	LAST DETAIL 58	46 00.	TYPE IS PAGE HEADING	•		1	14 940 NA	14 047 PI	AN USA PIC	14 050 PL	L-A TYPE	FLUS 2.		PLUS 1.	IN CIO NE	14 030 PI	PLUS 1.	I CTO NE	I CEO NE	100 TO	14 030 PI	PLUS 1.	14 010 M	US COLUMN USS PIC	PLUS 1.	OS COLORA OIO PIC	OS COLOMN OSO PIC	MM 010 01	US CRUMN USO PIC	PLUS 1.	OS CALUMN ULO PEC	14 080 PF	PLUS 1.	COLUMN 036 PIL	
	LEVEL 518	UZ COLUMA	OS COLUMN					_		OS CULUMN OBS	02 COLUMN 110	•	•	HEADING 1	FIRST	LAST	FOULT	OI TYPE	02 LIME 1.		03 COLUMN	O3 COLUMN	O3 CULUMN	O3 CULUMN	U3 COLUMN	OI DETAIL A TYPE IS DETAIL.	OZ LINE PLUS Z.	מייני ביי	UZ LINE F	03 60	הז כמרתנ	UZ LÍNE F	O3 COLUMN OLO PIC A	מיייי ביי	(30 T) (C	63 63 63	UZ LINE F	סז כחוח	OJ COLUP	02 LINE #	מזרים בסרסב	03 LIJLUMN 038	- 3417 70	מזרי כס	02 LINE 1	סז כשרת	รักได้ว่า 60	OZ LINE PLUS 1.		
	00 CUBOL 3.3 -	379	90	19	82		•	2	•	-	2 9		2 7	24	•	×	35	90	- :		. 0	: 7	25	53	*	~	9 5	- 4	• •			~	σ.	.	•	, ~	25		?	- :	y :	.			-	Ţ.	e e	0 -	77	

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TABLE XXXIII. ECUPDI COMPUTER LISTING (CONT)

40PT- 66/C0C/C0CS1

SOURCE LISTING OF ECUPOT

COC CUBUL 5.5 - LEVEL 4.8

PAGE

80/07/29. 13.25.42.

PADC-CAUS. Surt surt-file un ascending ket s-1 s-2 s-3 s-4 s-5-13 Input procedure is read-cards inited procedure is uppate-for.	
- 5	
INPUT PROCEDURE (S READ-CARDS) NUTBUT PROJECTIVE IN UPDATE-EDD.	
INTERN PRINCE IN HORATE-EDG.	
THE STATE THE STATE STAT	
200 200	ECUPOI 441
7	244 100137
SACKET CALL TANDOLTS	
CONTROL OFFICE	
PERCENT 13 TO THE TOTAL TRANSPORTER	
GU 10 CLS-CARO.	
GET-CAKO.	ECUP01 451
IF CO-TYP = ACLAS# NOVE CO-DIA TO CLASI	ECUPDI 452
ELSE	
IF CD-IYP - AREPTA MOVE CD-DIA IO REPI-TYP	
ELSE	_
PERFORM DAIA-CRD.	
PERFORM NO-CD.	ECUPOT 457
DATA-CKD.	ECUPUT 458
ADD 1 10 CT-CO.	ECUPDI 459
MOVE SPACE TO S-KCDC1.	ECUPOI 460
MUKE COIN TO STACOUTA.	ECUPOT 461
CENERATE DETAIL-C1.	ECUPOT 462
MUVE SPACE 10 ERA-PUS.	ECUPOT 463

NOT VAL-S4 MOVE #*** TO	ECUPOT 465
NOT VAL-S7 MUVE APPROPRIATE	ECUPOT 466
NOT VAL-38 MUVE APPROPRING TO	ECUPUT 467
NOT VAL -S9 MUVE A+A 10	ECUPOT 468
NOT VAL -S10 MUVE AAA 10	ECUPUT 464
NOT VAL-311 MOVE #99# 10	ECUPUT 470
NOT VAL-S13A MOVE AND TO	ECUPOT 471
NOT WAL-S138 MUVE FOR TO	_
VAL-S13C MIVE ANDA TO	ECUPDI 473
AUVE AND	ECUPOT 474
LRR-P	_
RELEASE SAT-REC	
ADD 1 TO CI-5KI	
ELSE	
GENEMATE DETAIL-C2	
AUD 1 FG CF-ERA.	cCUPD1 450
₹ 6 -C0•	ECUPUI 481
READ CARD-IN AT END ADVE HIGH-VALUES TO COIN.	ECUPDI 482
CLS-CARD.	ECUPUT 483
FERMINATE CARD-APT.	ECUPOT 444
CLUSE CARD-1M.	ECUPUT 485
UPDA1E-E2P SECTION.	ECUPOF 436

TABLE XXXIII. ECUPDT COMPUTER LISTING (CONT)

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FERTORN GET-GOP 15 SR-MEG MOI - HIGH-VALUES. 16 SR-MEG MOI - HIGH-VALUES. 17 CLS-19. 18 SR-MEG MOI - HIGH-VALUES. 18 SR-MEG MOI - HIGH-VALUES. 19 CLS-19. 10 CLS-19. 11 CLS-19. 12 SR-MEG MOI - HIGH-VALUES. 13 CLS-19. 14 SR-MEG MOI - HIGH-VALUES. 15 CR-19. 16 SR-MEG MOI - HIGH-VALUES. 17 CR-19. 18 SR-MEG MOI - HIGH-VALUES. 18 SR-MEG MOI - HIGH-VALUES. 19 SR-MEG MOI - HIGH-VALUES. 19 SR-MEG MOI - HIGH-VALUES. 10 CLS-19. 10 CR-19. 11 SR-MEG MOI - HIGH-VALUES. 12 SR-MEG MOI - HIGH-VALUES. 13 CR-19. 14 SR-MEG MOI - HIGH-VALUES. 15 CR-19. 16 CR-19. 17 CR-19. 18 SR-MEG MOI - HIGH-VALUES. 18 CR-19. 19 SR-MEG MOI - HIGH-VALUES. 10 SR-MEG MOI - HIGH-VALUES. 11 CR-19. 12 SR-MEG MOI - HIGH-VALUES. 13 CR-19. 14 CR-19. 15 CR-19. 16 CR-19. 17 CR-19. 18 SR-MEG MOI - HIGH-VALUES. 18 CR-19. 19 CR-19. 10 CR-19. 10 CR-19. 11 CR-19. 12 CR-19. 13 CR-19. 14 CR-19. 15 CR-19. 16 CR-19. 17 CR-19. 18 CR-19. 1		MUVE CRETTIES TO CO				066
FERTORN EXPONSITION TO THE CONTRIBUTION OF THE		SALITAIR CARDIANT				
FERTORN GIT-GOPIN - HIGH-VALUES. 15 ST-REC NOT - HIGH-VALUES. 16 ST-REC NOT - HIGH-VALUES. 17 ST-REC NOT - HIGH-VALUES. 18 ST-REC NOT - HIGH-VALUES. 19 CLS-1P. 19 E45GAM AIN-SAT NOTIL SAT-REC - HIGH-VALUES. 19 E45GAM AIN-SAT ECUPDI 19 E45GAM AIN-SAT ECUPDI 10 E1SE PERFORM FLO-2. 10 E1SE PERFORM FLO-2. 10 E1SE PERFORM FLO-3. 11 E-2 × 3-2 12 E45GAM AIN-SAT ECUPDI 18 E45 × 3-4 19 E45GAM AIN-SAT ECUPDI 19 E45GAM AIN-SAT ECUPDI 10 E1SE PERFORM AIN-SAT ECUPDI 11 E-3 × 3-3 12 E45GAM AIN-SAT ECUPDI 11 E-3 × 5-3 12 E45GAM AIN-SAT ECUPDI 12 E45GAM AIN-SAT ECUPDI 13 E45GAM AIN-SAT ECUPDI 14 E5 × 3-4 15 E4 × 3-4 16 E40DI 17 E41 E10		PERFORM RIVESELS			10101	266
FERTORN ELP UNTIL ESPIN - MIGH-VALUES. 10 CLS-19. EGY-10 CLS-19. EGY-10 CLS-19. ELSE FEELD FEATORM AIT-EOP ELSE FEELD FEATORM FLD-2. ELSE FEELD FEATORM FLD-2. ELSE FEELD FEATORM FLD-2. ELSE FEELD FEATORM FLD-3. ELSE FEELD FEATORM FLD-4. ELSE FEETORM FLD-4. ECUPDITE FEETORM FLD-4. ECUPDITE FLD		PERFURE GET-EUF.			10401	7.7
		PERFORM EDP UNTIL	EDPIN - HICH-VALUES.		ECUPOI	767
CLS FELD		IF SRI-KEC NOT . P			ECUPOT	495
10 CLS-2P. 10 CLS-2P. 10 CLS-2P. 10 CLS-2P. 10 E4FORM 41-E0P 11 E-1 < S-1 12 E4FORM 41-E0P 12 E4FORM 41-E0P 13 E4FORM 41-E0P 14 E4FORM 41-E0P 15 E4FORM 41-E0P 16 E4FORM 41-E0P 17 E4FORM 41-E0P 18 E		PERFORM R	SRI-REC	- HIGH-VALUES.	ECUPOT	496
FEST FIELD 1 ECUPDI		JU TO CLS-EJP.			ECUPOT	401
ELSE	•	rest fleto 1			ECUPDE	864
	20.3				ECUPOI	667
ELSE ELSE FEFGNA GGT-EOP ELSE FEFGNA GGT-EOP ELSE FEFGNA GGT-EOP ELSE FEFGNA GGT-EOP FERGNA GGT-EOP FERGNA GGT-EOP FERGNA GGT-EOP ELSE FEFGNA MIN-SAI ELSE FEFGNA MIN-SAI FEST FIELD 3 FEFGNA MIN-SAI FEST FIELD 4 FEFGNA MIN-SAI FEST FIELD 4 FERGNA MIN-SAI FEST FIELD 4 FERGNA MIN-SAI FEST FIELD 4 FEST FIELD 4 FERGNA MIN-SAI FENDI FEST FIELD 4 FERGNA MIN-SAI FENDI FEST FIELD 7 FENDI FENDI FEST FIELD 7 FENDI FENDI		S-1			ECUPDI	200
FETS FETON GETEOP FETON GETEOP		PEAFON	403-17 W		ECUPOT	501
FELSE FELL S-1 FERFORM FIN-SRT ECUPDI FERFORM FIN-SRT ECUPDI		PEAFON	M Ge I-EOP		ECUPOI	205
IF E-1 * S-1 ECUPDI ECUP					ECUPDI	503
FERFORM FINANCE FERFORM FI		1 5 6			FCUPDE	105
FLSE FERFORM FLD-2.		•	1071210 2		E C 110 0 T	
F.ST FIELD 2 FERFORM FLD-2. FEUPPI FEUPP					10007	
F.ST FIELD			4			
FLD-2. IF E-2 < 5-2 FERFURN GET-EOP ELSE FERFORN GET-EOP ELSE FERFORN GET-EOP FERFORN FLD-3. FEST FIELD 3 FERFORN GET-EOP ELSE FERFORN GET-EOP ELSE FERFORN GET-EOP FERFORN FLD-4. FEST FIELD 4 FERFORN FLD-4. FERFORN FLD-4.		•	. r.u-c.			100
FLD-2. FLSt LEST FIELD 3 FERFORM GET-EUP FLST FIELD 3 FERFORM AIT-EQP FERFORM AIT-EQP FLD-3. FERFORM AIT-EQP FLD-4.	•	ESI FIELD			ECOPOI	208
F = 2	ויי				ECUPOT	509
FERFORM GET-EUP ECUPDI		E-2 < 5-3			ECUPDI	510
ELSE FEATONN GETEGOP ELSE FEATONN RIN-SRI FLD-3. FEATONN RIN-SRI FLS-3		PERFU	4M 4T-E0P		ECUPOI	511
ELSE PEAFORM RIN-SRI ELSE PEAFORM FLD-3. FLD-4. FLD-6. FLD-1. F		PERFOR	CH GET-EOP		ECUPOT	512
If e-2 > 5-2 PERFORM RIN-SRI ECUPDI ELSE PERFORM FLD-3. ECUPDI ECUPDI ECUPDI ECUPDI ECUPDI ECUPDI ELSE PERFORM GET-EQP ECUPDI ELSE PERFORM FLD-4. ECUPDI ECUPDI ELSE PERFORM FLD-4. ECUPDI ECUPDI ECUPDI ELSE PERFORM FLD-4. ECUPDI					ECUP01	513
FLSE PEAFOUND KIN-SRI FLO-3. FLO-3. FLO-3. FLO-3. FERFORM AT-EQP FERFORM GET-EQP FLSE FLSE PERFORM FLO-4. FLST PERFORM FLO-4. FLO-4. FLO-3. FLO-3. FLO-3. FLO-3. FLO-3. FLO-4. FLO-4. FLO-4. FLO-4. FLO-6. PERFORM FLO-4. FCUPDI F		9	2		LUGINOS	4-5
FLOST FIELD 3 FLO-3. FLO-3. FLO-3. FLO-3. FLO-3. FLO-3. FLO-3. FLO-4. FLO-6.		J	1			
FLO-3. FLO-3. FLO-3. FLO-3. FLO-3. FLO-3. FLO-3. FE = 3 < S = 3 PERFORM AT-EOP FE = 1 > S = 3 FE = 1 > S = 3 FE = 2 < S = 3 FE = 2 < S = 3 FE = 3 < S = 3 FE = 4 S = 3 FE = 4 S = 4 ADD 1 FO CT-OFL MINULE AAD 10 CT-OFL FELSE FERFORM AT-EOP FELSE FERFORM MIN-SRI FELSE FELSE FERFORM MIN-SRI FELSE						614
FLO.3. FLO.3. FLO.3. FLO.3. FLO.4. FLO.4.	•				10000	916
FLO-3. FLO-3. FERFORM AT-EQP FERFORM GET-EQP FLSE FLSE FLSE FLSE FLSE FLSE FLSE FREGORM FLO-4. FLSE			CH PLU-3.		10401	/16
FLD-3. FLD-3. FELSE FERFORM GET-EQP FLSE FLSE FERFORM FLD-4. FLD-6. FLD-6. FLD-6. FLD-7. FL	•	ST FIELD			ECUPDI	212
F E-3 4 5-3 PERFORM GET-EQP ELSE	FLO				ECUPOT	519
FEKFORM AT-EQP ELSE IF C-3 > S-3 PERFORM RIN-SRI ELSI PERFORM FLO-4. FLO-4. IF S-4 - SPACE AND S-5-13 - SPACE IF S-4 - SPACE AND S-0-10 - ECUPOT ELSE MJUL A+* TO S-0-10 - ECUPOT ELSE REFORM AT-EQP PERFORM AT-EQP ELSE REFORM AT-EQP ECUPOT ELSE IF E-4 < S-4 PERFORM AT-EQP ECUPOT ECUPOT ECUPOT ELSE ECUPOT ECUPO		S			ECUPOT	520
FLSE IF C-3 > S-3 FLSE PERFORM FIN-SRI ELSE PERFORM FLD-4. FLD-4. IF S-4 - SPACE AND S-5-13 - SPACE RIDNE AND 1 IO CT-DEL RIDNE AND 1 IO CT-DEL RIDNE AND 1 IO S-USED PERFORM AI-LUP ELSE IF E-4 < S-4 PERFORM GET-EUP ELSE IF E-4 < S-4 PERFORM GET-EUP ELSE IF E-4 < S-4 PERFORM GET-EUP ECUPDI ECUPDI			44 4T-E0P		ECUPOT	521
ELSE IF e-3 > S-3 PERFORM FLO-4. TEST FIELD 4 FLO-4. IF S-4 = SPACE AND S-5-13 = SPACE AND 1 TO CT-DEL MINE A+A TO S-USED PERFORM SITEL D ELSE IF E-4 < S-4 PERFORM AI-E DP ELSE ELSE ELSE ELSE ELSE ELSE ELSE ECUPOI ECUPOI ELSE ECUPOI ECUPOI ELSE ECUPOI ECUPOI ELSE ELSE ECUPOI ECUPOI ECUPOI ELSE ECUPOI ECUPOI ECUPOI ECUPOI ELSE ECUPOI		PERFO	SETTED B		FCHPDT	522
ELSE PERFORM FLO-4. FLU-4. IF 5-4 - SPACE AND 5-5-13 - SPACE AND 1 IO CT-DEL MINULA WITHOUT ELSE PERFORM GI-LDP PERFORM GI-LDP PERFORM GI-LDP FELSE IF E-4 < S-4 PERFORM GI-LDP ELSE IF E-4 < S-4 PERFORM GI-LDP ELSE FELSE FERFORM GI-LDP FELSE FELSE FERFORM GI-LDP FELSE FELSE			;		1001103	202
FLSE PERFORM RIN-SRI ELSE PERFORM FLD-4. FLD-4. FLD-4. FLD-4. FLD-4. FLD-4. FLD-4. FLD-4. FLD-6. FLD-6. FLD-6. FLD-6. FLD-6. ADD 1 IO CT-0EL ADD 2 -0.5-13 - SPACE ECUPD 1 ELSE FLF 4 4 5-4 FELSE FLF 2 4 4 5-4 FELSE FLF 2 5-4 FLDD 1 F			•		- 6	
FLUE FEED 4 FLUE 4 FLUE 4 FLUE 5. FLUE 6. FLUE 6. FLUE 7. FLUE 6. FLUE 7. FLUE 7. FLUE 7. FLUE 7. FLUE 1. F		u	7 - C		10101	170
FLSE PERFORM FLO-4. FLU-4. FLU-4. IF S-4 - SPACE A4D S-5-13 - SPACE ADD 1 IO CT-DEL AND 1 IO CT-DEL AND 1 IO CT-DEL AND 1 IO CT-DEL ELSE FREGURN GET-LAP PERFORM GET-EAP FERFORM GET-EAP FEURD FERFORM FIN-SRI FEURD FERFORM FIN-SRI			CH RIN-SRI		ECUPUL	525
FLD 4. FLD-4. FLD-4. FLD-4. FLD-4. FLD-4. FLD-4. FLD-4. FLD-4. FLD-4. ADD 1 IO CT-0EL MINE 404 IO S-0.8D FREGURA GET-E.DP FLESE FLSE FREGURA AT-E.DP FREGURA AT-E.DP FREGURA AT-E.DP FREGURA GET-E.DP FREGURA FIN-SRI FREGURA FIN-SRI					ECUPUT	526
FLU-4. FLU-4. IF S-4 = SPACE AND S-5-13 = SPACE ADD 1 TO CT-DEL MUNE A+* TU S-USED FLUE FL		PERFOR	M FL0-4.		ECUPOT	527
S-4 - SPACE A4D S-5-13 - SPACE ADD 1 TO CI-DEL ADD 1 TO CI-DEL ADD 2 TO S-USED ELSE ELSE PERFORM GET-EJP PERFORM AFFEDP ELSE FERFORM GET-EJP ELSE FERFORM AFFEDP ELSE FERFORM AFFEDP ELSE FEUPD1 ELSE FERFORM AFFEDP ELSE FEUPD1 FEUPD1 FEUPD1 FEUPD1 FEUPD1 FEUPD1	•	ST FIELD			ECUPOT	520
S-4 - SPACE A4D S-5-13 - SPACE ADD 1 TO CT-DEL MINE A++ TU S-USED FLSE FLSE IF E-4 < S-4 FENSION GET-E-3P FENSION GET-E-3P FENSION GET-E-3P FENSION GET-E-3P FENSION FINANCE FENSION FENSION FENSION FINANCE FENSION FINANCE FENSION FINANCE FENSION FINANCE FEURDI FENSION FINANCE FEURDI FEU	113				FCHPOT	520
ELSE ELSE FEFORM GET-EUP FERSE FEFORM GET-EUP FERSE FERSE FERSE FERSE FEUPDI FEUDDI		9. 4.7	37407 - 41-8-7		10000	0.5
MOVE			13-7-13 = 3race		10000	
MOVE 444 10 S-USED ECUPDI ECUPD		T ON	10 CI-0EL		ECUPU.	15.5
PERFURN GET-EJP ECUPOI ECUPOI		MOVE	*** TU S-USED		ECUPUT	532
F = 4 < 5 = 4 E = 4		PCRFUA	SA COTHESP		EC UP 0 1	533
F = -4		EL SE			ECUPUL	534
PERFORM AFEGR ECUPOI PEMFORM GET-EOP ECUPOI ECUPOI ECUPOI IF 2-4 > S-4 ECUPOI PERFORM RIN-SRI ECUPOI			9 -0		ECUPU1	535
PEMFORM GET-EOP ECUPOI ECUPOI IF c-4 > S-4 PERFORM RIN-SRI ECUPOI			A LI-EUP		FCUPJE	536
IF =-4 > S-4 ECUPOI ECUPOI PERFORM RIN-SRI		119790	00011100		EC 110.1	533
IF =-4 > S-4 ECUPOI PENFIUM KIN-SRI						
PEAFDXH KIN-SRI		ų	•		ECOPD 1	200
TENTENT XINE		· J	* (* : : : : : : : : : : : : : : : : :			234

TABLE XXXIII. ECUPDT COMPUTER LISTING (CONT)

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כחכ כחפתר א	5.5 - LEVEL 448 SUUKCE LISTIMG UF ECUPUI AUPI' 66/CUC/CUCSI		80/01/24. 13.25.42.
241	PENIORM FLO-5-13.	ECUPUT	245
245	+ TEST FIELDS 5-13	ECUPUT	543
543		ECUPDI	544
>44	IF 5-5-13 • SPACE	ECUPOT	545
5 45	MOVE AND TO SHUSED	ECUPUT	0.00
0 7 0	13011 DI 1 DAY	10401	- T
	15.13r	ECUPOT	
543	PEAFLAN UPO-FIELDS	ECUPOI	550
550	PRATCRA RININA	ECUPOT	155
155	* RETURN SURTED DATA CARDS	ECUPOT	252
252	ATX-SAT.	ECUPOT	553
553	IF S-USED - SPACE PERFORM ADD-EDP.	ECUPOT	200 200 200 200 200 200 200 200 200 200
, , ,	METUREN SURFILLE AT ENU AUVE MIGH-VALUES TO SKITKEL.	ECUPO!	222
555	ACUTE OF ACT TO VIOLED.	EC0401	5.50
527	se f-	ECUPOT	
954	READ EQUIP-IN AT END NOVE HIGH-VALUES TO EQPIN.	ECUPOT	554
25.1	IF EQPIN NOT . MIGH-VALUES ADO 1 TO CI-EIN.	ECUPOT	260
260	. WRITE NEW EJUIPAENT RECORD (UPDATED OR NO ACTION)	ECUPOL	561
195		ECUPOT	562
797	ALAK ROPA IL RAPUL.		303 644
500		104073	
7 4		FCOPOL	250
200	-001	ECUPOT	567
267	MOVE SPACE TO ERK-PUS.	ECUPOT	568
564	OI K	ECUPOT	569
101	S-6 - SPACE MUVE APPRESSED BOSSON TO	ECUPOT	570
570	S-7 - SPACE AUVE A++++++++	ECUPOT	125
271	30VE	ECUPOT	575
57.5	DI CAMPANA DAN PARA PARA PARA PARA PARA PARA PARA PA	104073	276
274	OF CENTRAL MINE NAME OF STATE	ECUPOT	525
213	S-13 - STACE MUVE ANTHON	L CUPOT	916
57.5	PUS . SPACE	ECUPOL	577
211	PERFORM AT-ADD	ECUPDI	578
573	ELSE	ECUPUI	579
573	GENERALE DETAIL-CI	CUPDI	020
0,70	CENERALE DE PAIL-C2	ECUPD1	196
100	- AXO		202
3 P. C	ADD 1 TO CLATERS.	FCUPDI	200
584	#1-A00.	ECUPOT	545
545	MOVE SRI-Keil To REPOIL.	ECUPOI	596
595	WRITE EUPOI.	ECUPOF	587
765	ADD 1 TO CT-EDT.	ECUPOT	588
, 14.4 5 2 4	ADD 1 TO CI-ADD. A MODATE AND EMPLOYED STANDARD AND ADDRESS OF THE DESCRIPTIONS.	ECUP01	200
07.5	UPD-FILDS.		591
531	1 0 - 5 - 5 dl	ECUPOL	592
265	MAVE SPACE TO 6-5	ECUPUT	543
593	ELSt	ECUPOS	244
234	IF 3-5 NUT - SPACE	ECUP01	595

TABLE XXXIII. ECUPDT COMPUTER LISTING (CONT)

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			940
S-7 * ** S-7 * ** ** ** ** ** ** ** ** **	• .	ECUPDI	265
S-7 - MOVE ELSE IF S S-0 - MOVE ELSE IF S S-9 - MOVE ELSE IF S	0-1		966
S-7 - 4+ ELSE B S-8 - 4+ ELSE B S-9 - 4+ ELSE		101010	604
S-7 - A-4 ELSE HJVE ELSE FLSE HJVE ELSE S-9 - TOP	7. 14. 10 E-6.	FCUPUT	000
HOVE SPACE IL ELSE HOVE SPACE IL ELSE If S-8 40F HOVE SPACE IL ELSE HOVE SPACE IL ELSE HOVE SPACE IL FOR SPACE IL HOVE SPACE IL FOR SPACE IL FO	•	ECUPDI	602
ELSE 1F 5-7 MJT 8 S-8 * * * * * * * * * * * * * * * * * * *	r-1	ECUPDI	603
S-0 . A MOVE S-7 MOVE S-7 MOVE S-7 MOVE S-7 MOVE S-4 MOVE		ECUPOT	\$09
MUVE S-7 NUVE SPACE TU ELSE MUVE S-4 40f NUVE SPACE TU F. C0 MOVE	SPACE	ECUPDI	405
NOVE SPACE TO ELSE IF S-8 40F • MOVE S-4 S-9 • *** MOVE SPACE TO F. C.	10 é-7.	ECUPDI	909
HUVE SPACE TO ELSE F S-8 40F MUVE S-4 MUVE SPACE TO ELSE		ECUPUT	. 209
FLSE IF S-8 4JF • MUVE S-4 S-9 • *** MOVE SPACE TO ELSE	E-13	ECUPUT	P09
16 S-8 455 m MUVE S-4 S-9 mmove SPACE Tu ELSE		ECUPDI	609
MUVE SPACE TU	SPACE	ECUPOT	610
S-V = FFF MINE SPACE TO ELSE	T.C. FE-8.	ECUPOT	119
TE S-0 MOT		FCUPDI	219
104 0-0 31		FCOPDI	613
		FCUPOI	•
^	37*KE		670
16 C-10 - 444	• • • • • • • • • • • • • • • • • • • •		010
21-7	01-3		914
FLSE STATE OF		FCIPOT	9 10
4 JCN 01-2 41	SPACE	FCUPOT	620
_	10 6-10.	FCUPDI	621
1F S-11 - 20 2		ECUPOT	622
MAVE SPACE TO	E-11	ECUPOT	623
ELSE		ECUPOI	424
~		ECUPUL	625
•	f0 E-11.	ECUPOT	929
The second secon		ECUPDI COPDI	/70
FIXE		EC0401	879
. ICN C1-2 JE	SPACE	FCUPDI	0.00
4.3VL S-1		FCCP01	631
5-056		ECUPOI	632
		ECUPOT	633
CLS-EUP.		ECUPOL	634
TERRINATE CARD-APT.		ECUPOT	635
		t COPOT	979
**************************************			200
		FCUPDE	9 6
PERFORM SKILEP SARVE	26 R FRUX 1 BY 1	FCUPOT	0,40
2 4 × 11 1 1 10	DA &-NUM (R.	L CUPOI	140
JU 10 CNU-491.		ECUPOT	642
SKT-KPT.		ECUPOT	643
IF H-NUM (4) - ALA		ECUPUI	***
שחי זאני	_	ECUPOT	645
	~	ECUPUT	949
J	COINC FLUIP-DUT SIVING SURFIERS	ECUPO1	
1519	TATEL SENTATION		0 1

TABLE XXXIII. ECUPDT COMPUTER LISTING (CONT)

***	CAN DESCRIPTION OF STREET	ECUPOT	650
	4-5 R-5 7-5 R-5 G-5	10407	651
•	USING EQUIP-DUT GIVING SURT-WRK	ECUPOT	653
	アトストンスト らによースのこ	ECUPUT	654
(()	Ŧ	10401	655
	SURT SURT-FILE ON ASCENDING KEY	ECUPDI	657
	~	ECUPDI	658
D 70	CYING EQUIP-DEL GENERGE SUBJECT SERING SUBJECT SERINGS	ECUPDI	659
	FLSE		000
149	IF R-MUM (R) - A44	100101	100
290	SOAT SOAT-FILE ON ASCENDING KEY	ECUPDI	963
		ECUPOT	199
190	USING EJUIP-OUT GIVING SORT-WRK	ECUPOL	665
600	PERFIRE GEN-RPT	ECUPOL	999
600	:	ECUPDE	199
	ACM - CY DON'T ACM ACCOUNTS	ECUPOT	664
9 4	AUX ORIGINATIVE AND	ECUPUT	699
	Service Comments and the Comments of the Comme	ECUPOT	0.79
	YARITADA DATATO TODILATORA NATURA	10401	1/0
	A CALLAND CARLANT	COPDI	2/9
	747 4 107 FIRTO 31	ECUPUI	6/3
1/6	A 19		
515	3+1 V=1 V=1 V=1 V=1 V=1 V=1 V=1 V=1 V=1 V=		010
	TOTAL CONTRACT OF THE CHARACTERS	1000	677
677		FCUPDI	£ 2
	ELSE	ECUPOT	629
		ECUPUT	690
	SORT SORT-FILE ON ASCENDING KEY	ECUPOT	189
	n	ECUPOL	642
	XXX-1XOS ONIATO 100-4100 ONIXO	ECUPOT	683
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9.9	PRAFURM RU-JRK.	ECUPOT	269
7+9	END-RPT.	ECUPUI	643
er. 0		L CUPOT	70.0
110	GENERATE DETAIL-A.	ECUPDI	700
90/	CLIST BELLITE	ECUPUI	102

SECTION 11 - PROGRAM OVERLAP [18]

11.1 PURPOSE

Program OVERLAP 18 identifies all possible interfering transmitters for each receiver in a given deployment, checks the master equipment call summary file for omissions, and extracts required call summary data for receivers and interferers for use in later processing.

11.2 PRINCIPAL FUNCTIONS

Program OVERLAP, shown in figure 42, accepts as input the required equipment file for the deployment being analyzed, the master equipment call summary file, and a program control card to determine all potential interfering transmitters for each receiver class. The program compares each receiver-interferer combination with the master equipment call summary file, makes a summary of all matches on 3, 2, 1, or 0 digits of the interferer ID code, and outputs the extracted required equipment call summary file. The principal functions of program OVERLAP are as follows:

- a. Identifies all transmitters with frequency ranges overlapping the frequency range of a given receiver.
- b. Checks the master equipment call summary to see if these interferers match on 3-, 2-, 1-, or 0-digit items presently in the master file.
- c. Makes an extract of the master equipment call summary file for receivers and interferers to be used in later programs.

11.3 INPUT/OUTPUT DESCRIPTION

Input to program OVERLAP consists of a program control card, the required equipment file, and the master equipment call summary file. Output consists of the required equipment call summary file, plus a summary by receiver equipment class of equipment class code assignment data and equipment call summary data categorized by 3-, 2-, 1-, and 0-digit matches for interferers.

11.3.1 Input Format

The format for input data is as follows:

- a. Program control card, figure 43, page 11-5.
- b. Required equipment file (25), table XXXIV, page 11-8.
- c. Master equipment call summary file (27), table XXXV, page 11-12.

11.3.2 Output Format

The format of the required equipment call summary file (28), output from program OVERLAP, is given in table XXXVI, page 11-16.

11.4 PROCESS DESCRIPTION

- a. Program OVERLAP is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer. It requires 100000_8 words of central memory for compilation and execution.
- b. The program reads the program control card that specifies security classification of the output data and an option indicator to permit the output of complete equipment description records for 2- and 1-digit interferer equipment ID matches, if set to TRUE.
- c. The required equipment file is read and separated into two files—one for transmitters and one for receivers. These two files are sorted on equipment class code, and the sorted transmitter file is read into core storage.
 - d. After initializing, the program processes input data as follows:
- (1) All receiver equipments with the same equipment class code are read, and tuning range limits are determined for this equipment class.
- (2) The master equipment call summary file is searched for data for this equipment class. If a match is not found, an information message is written to output. When a match is found, each transmitter is processed in sequence.
- (3) If the transmitter frequency is outside the tuning range limits of the receiver class, proceeds to the next transmitter.
- (4) For transmitters operating within the tuning range limits of the receiver, searches the table of interferer codes in the call summary data for a match on all three digits. If a match is found, adds the interferer code to the table of 3-digit matches. If no match is found, tries to match on the first two digits only, and adds to the table of 2-digit matches if successful. If this fails, searches for a match on the first digit only and adds to the table of 1-digit matches.
- (5) Repeats steps (3) and (4) until all transmitters have been processed.
- (6) Outputs summary data for this receiver class including 3-, 2-, 1-, and 0-digit match tables and complete equipment description records for interferers matching on less than three digits. Complete record output for 2- and 1-digit matches is under OPTION control (see program control card).

- (7) Writes call summary data to required equipment call summary file.
- (8) Repeats steps (1) through (7) until all receiver classes are processed.
- (9) Outputs any messages concerning unusual conditions encountered.

11.5 PROGRAM OPERATION

Figure 44, page 11-18, is a listing of all system and UPDATE control cards necessary to execute OVERLAP for a typical computer run.

11.6 LIMITATIONS

Program OVERLAP is presently set up to handle a maximum of 700 unique transmitter equipments in a deployment. The number of receiver equipments in the same equipment class is limited to 50, with no more than 5 multiple frequency ranges. The tables for 3-, 2-, 1-, and 0-digit matches are limited to 1, 11, 101, and 500, respectively, for each type. The maximum number of interferer codes in the call summary for one receiver class is 30.

11.7 RUNNING TIME

Running time is estimated at 10 minutes per 500 equipments, about evenly divided between transmitters and receivers.

11.8 COMPUTER PROGRAM LISTING

A complete computer listing for program OVERLAP and subroutine NEWPG is shown in table XXXVII, page 11-20, annotated to aid in the understanding of the program functioning.

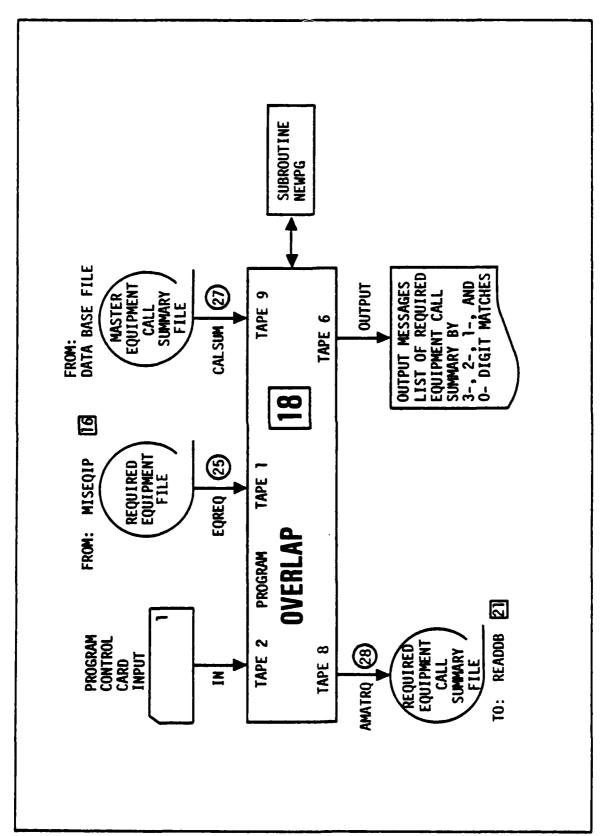


Figure 42. Program OVERLAP, functional block diagram.

FIELD DESCRIPTION	Security classification to be output in page headings.	Option indicator (true or false) for output of complete records for 2- and 1-digit matches.
MNEMONIC	KLASS	OPTION
BCD FORMAT	A10	L10
CARD COL	1-10	11-20
FIELD NO.	1	2

Figure 43. OVERLAP input, program control card.

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File Descri	ption:_F	Required	Equipment File (25)	,
File Name:_	EQREQ		Logical Unit: 1	
Mode/Type:_	BCD		Record Length: 81 characters	
Origin:	MISEQIE	2 [16]		
Used Bv:	OVERLAF	2 [18] ;	EQCLSFF 22	

TAB'E XXXIV. REQUIRED EQUIPMENT FILE (25)

			•
Data Description	Field Size	Field Position	Remarks
	4	1	Blank
Component code	т	2-4	A 3-character alphanumeric code assigned to this equipment component.
Major equipment code	2	2-6	A 2-character alphanumeric code assigned to this major equipment class.
Modulation code	8	7-8	A 2-digit code indicating modulation type: 33 = F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = F9, 50 = P0, 58 = P9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.
Number of channels	E	9-11	The number of channels assigned for this equipment component, if applicable. If subfield 9 \geq 5, the equipment is encrypted.
Component nomenclature	15	12-26	Name of the component associated with this component code.
Major equipment nomenclature	15	27-41	Name of the major equipment associated with this major equipment code.
Low tuning range limit	&	42-49	Lowest frequency (in kHz) to which this equipment will tune.
High tuning range limit	80	5¢ 57	Highest frequency (in kHz) to which this equipment will tune.
	1	58	Blank

TABLE XXXIV. REQUIRED EQUIPMENT FILE (25) (CONT)

	Remarks	A 1-character alphabetic code indicating the use type of equipment: B = broadcast/tele-vision, C = communications, D = direction finding, E = fixed frequency emergency guardband, I = intercept/ESM, J = jammer/ESM, M = sensors, N = navigation aids, O = orderwire, Q = miscellaneous special purpose, S = detecting/range bearing (radar), V = sensor data link, X = IFF, Y = security monitoring (COMSEC, etc.), Z = special electronic warfare (EW).	Blank	A 1-character alphabetic code indicating force type: B = BLUE (friendly), R = RED (enemy).	Blank	A 2-character alphabetic code indicating equipment type: XX = transmitter only, XY = transceiver, YY = receiver only.	Blank	Expanded equipment class for future development. Not presently used.	Blank
•	Field Position	59	09	61	62	63-64	65	7-99	7.5
	Field Size	т	1	Ħ	1	7	1	6	-
	Data Description	Use code		Force code		XY code		New equipment class	

TABLE XXXIV. REQUIRED EQUIPMENT FILE (25) (CONT)

Data Description	Field Size	Field Posttion	Remarks
Equipment class code (last 5 of 6 digits)	5	76-80	A 5-digit code assigned to indicate the equipment class when the data set code is attached as the first of a total of 6 digits. The final 5 digits are assigned as follows:
			Subfield 76. Modulation code: 1 = F3 = 33, 2 = A3 = 13, 3 = A3A or A3J = 14, 4 = F1 = 31, 5 = F9 = 36, 6 = P0 = 50, 7 = P9 = 58, 8 = A2 or A9 = 18 or 12, 9 = A1 = 11, 0 = special or other.
			Subfield 77. Bandwidth: For modulation codes 1-5 and 8, 9, 0: 1 = narrow, 2 = medium, 3 = wide, 4 = very wide; for modulation codes 6 and 7: 5-9 and 0 indicate different "B" matrices.
			Subfield 78-79. Sequence number: 00-99 = final specific equipment designator within modulation code and bandwidth.
			Subfield 80: Siting preference: 1 = normal, 2 = normal, 3 = airborne radar, 4 = ground radar, 5 = preferred, 6 = airborne nonradar, 7 = radio relay (LOS), 8 = nap of the earth, 9 = troposcatter, 0 = satellite.
	-	81	A 1-character alpha code to flag equipments for special handling. Slash (/) = delete equipment from analysis, asterisk (*) = process for interferers only; otherwise, blank.

File Descri	ption: Master Equipment Call Summary (27)
File Name:	CALSUM Logical Unit: 9
Mode/Type:_	BCD Record Length: 68 characters
Origin:	Data base file maintained by programs AMCSMNT and CALLSM
Used By:	OVERLAP 18; AMCSMNT 19

TABLE XXXV. MASTER EQUIPMENT CALL SUMMARY FILE (27)

Data Description	Field Size	Field Position	Remarks
Receiver ID code	5	1-5	The middle 4 digits of the 6-digit equipment class code, right-justified. The middle 4 digits uniquely identify the equipment type.
"A" value	∞	6-13	Threshold value of Ŝ (in dBm), the desired RF signal level, for 50 percent probability of satisfactory operation in the absence of interference other than receiver noise. Expressed in hundredths of a dBm.
Variance of "A"	٧	14-18	Variance parameter (in dB^2) of a Gaussian distribution function that is fitted to the function relating the probability of satisfactory operation to $\hat{\mathrm{S}}$, in the absence of interference other than receiver noise. Expressed to nearest tenth of a dB^2 .
Number of expected interferer classes	7	19-20	The number of expected interferer classes for this receiver equipment class, presently limited to 30.
Interferer equipment class (1)	ဧ	21–23	The 2nd, 3rd, and 4th digits of the 6-digit class code for one potential interferer equipment class for this receiver.
Scoring curve ID (1)	က	24-26	The ID number of the "B" matrix scoring curve to be used for scoring interferer equipment class (1) and this receiver.
(See note on following	page)		

TABLE XXXV. MASTER EQUIPMENT CALL SUMMARY FILE (27) (CONT)

I					
	Remarks		The last two data items (interferer equipment class and scoring curve ID) are repeated for up to 8 equipments per record ending in field position 68. If there are more than 8 expected interferer classes, data are continued in the next record in the same format (field positions 1-20 are identical and interferer class (9) starts in positions 21-23, etc.). This procedure is followed for a maximum of 30 interferer classes for each receiver ID code. The number of records for each receiver ID code is a function of the number of expected interferer classes (field positions 19-20). The maximum number of records is 4, with 8 interferer classes per record to the maximum of 30.		
	Field Position		equipment g in field ued in the lass (9) st erferer cla s a functio um number o		
	Field Size		(interferer ecord endin are contin nterferer c m of 30 inter r ID code i The maxim 30.		
	Data Description	NOTE:	The last two data items up to 8 equipments per re interferer classes, data 1-20 are identical and in is followed for a maximum records for each received (field positions 19-20).		

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File Descr	iption:_	Required	Equipment	Call	Summar	y File	(28)	
File Name:	AMATRQ	·- <u>-</u>		····	Logi	ical Un	nit: <u>8</u>	
Mode/Type:	BCD		Reco	rd Le	ngth:	68 ch	aracters	
Origin:	OVERLA	P 18						
Used Bv:	READDB	21	<u> </u>					

TABLE XXXVI. REQUIRED EQUIPMENT CALL SUMMARY FILE (28)

	,)
Data Description	Field Size	Field Position	Remarks
Receiver ID code	\$	1-5	The middle 4 digits of the 6-digit equipment class code, right-justified. The middle 4 digits uniquely identify the equipment type.
"A" value	6 0	6-13	Threshold value of Ŝ (in dbm), the desired RF signal level, for 50 percent probability of satisfactory operation in the absence of interference other than receiver noise. Expressed in hundredths of a dbm.
Variance of "A"	ب	14-18	Variance parameter (in dB^2) of a Gaussian distribution function that is fitted to the function relating the probability of satisfactory operation to \hat{S} , in the absence of interference other than receiver noise. Expressed to nearest tenth of a dB^2 .
Number of expected interferer classes	7	19–20	The number of expected interferer classes for this receiver equipment class, presently limited to 30.
Interferer equipment class (1)	က	21-23	The 2nd, 3rd, and 4th digits of the 6-digit class code for one potential interferer equipment class for this receiver.
Scoring curve ID (1)	e	24-26	The ID number of the "B" matrix scoring curve to be used for scoring interferer equipment class (1) and this receiver.
(See note on following	page)		

TABLE XXXVI. REQUIRED EQUIPMENT CALL SUMMARY FILE (28) (CONT)

	Remarks		The last two data items (interferer equipment class and scoring curve ID) are repeated for up to 8 equipments per record ending in field position 68. If there are more than 8 expected interferer classes, data are continued in the next record in the same format (field positions 1-20 are identical and interferer class (9) starts in positions 21-23, etc.). This procedure is followed for a maximum of 30 interferer classes for each receiver ID code. The number of records for each receiver ID code is a function of the number of expected interferer classes (field positions 19-20). The maximum number of records is 4, with 8 interferer classes per record to the maximum of 30.	
•	Field Position		equipment g in field ued in the lass (9) sterferer class s a function number o	
	Fleld Size		(interferer ecord ending are conting in are conting in the ferer conting in the maximal of 30.	
	Data Description	NOTE:	The last two data items up to 8 equipments per rinterferer classes, data 1-20 are identical and its followed for a maximul records for each receive (field positions 19-20).	

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OVERLAP (MISEQIP/OVERLAP/ANTENNA) control card listing. Figure 44.

(21)	7-8-L	CARD	
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1 54)	6-9-2		
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1 56)	7-0-7	CARO	
125 1	SECRET	TASK NAME	
28)	7-8-9	CARD	

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	3		OVERLAP	115
	15 WRITE (2) EUIP		GVERLAP	116
	3		DVERLAP	117
27	C D 1 20 C 1 1 20 C 1		OVERLAP OVERLAP	9 0
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	20 CONTINUE		UVERLAP	121
			OVERLAP	122
125	21 CONTINUE		OVERLAP	123
	•		OVERLAP	124
	C SUR! TRANSMITTERS AND RECEIVERS ON EUGIPHERI CLASS	CLASS	OVERLAP	126
	CALL SMSORT(110)		FINDLAP	61
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			FINDLAP	21
	CALL SAKEY191,10,00,41NIEGER#)		FINDLAP	22
			FINOLAP	5 2
135	CALL SMFILE ISORTA, FALMARYS, 2, FREMINDS)		FTHOLAP	52
	CALL SMFILE(40UTPUTA, 48INARY4,4, 4KEWIND*)		FINOLAP	92
			FINGLAP	27
	CALL		FINGLAP	87 .
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	1-1-1 52		OVERLAP	138
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1	ALAD (3) (TRANS(I,J),J*I,10)		OVERLAP	140
145	IF (EUF (31) 30, 25		FINGLAP	621
	C INITIALIZE AND READ FIRST RECEIVER RECORD		OVERLAP	143
			OVERLAP	144
	30 TEND-1-1		OVERLAP	145
150	REVING 3		DVERLAP	941
			DVEKLAP) , 1
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	TX TX TX TX		OVERLAP	150
155	N21 -NMAXL		OVERLAP	151
	KEAD (4) (EQUIP(I,J),J=1,10)		OVERLAP	152
	TUNKI (1) =0.995+EULIP(1,5)		DVERLAP	153
			OVERLAP	104
091			DVFRIAP	126
}			OVERLAP	157
	C READ WERT MEGETVEN RECORD		OVERLAP	158
			OVERLAP	150
165			FINIS	961
•			OVERLAP	162
	C GROUP RECEIVERS AITH LIKE EQUIPMENT CLASSES		OVERLAP	163
			OVERLAP	164
	50 IF ((EQUIP(I+I)10)/10).4E.(EQUIP(I,10)/10)/ 60 IO	09	OVERLAP	165
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C EXTENS FREQUENCY RANGE OR ADD NEW ONE IF NECESSARY ONE RELAP		•		CVERLAP	16 θ
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The control of the	.75			OVERLAP	170
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Outside Outs			E.IONKI.LI.AND.II.LE.IONKHIJII 60 10	OVERLAP	-
1015 1016	8			CVERLAN	77.
######################################		2 =	Cr Cr Instruct	94 19 100	2.4
MATERIAN		- 1	01 00 1001440	OVERLAN	7 7 8
101) 508MAI (* 1005) 60 10 10 10 10 10 10 10 10 10 10 10 10 10		: 3	-	04:41	1 20
10 10 10 10 10 10 10 10				24240	
C EDS-21. C END OF RECEIVER FILE SUITCH SET OUT 10. OURRING C ID 10. C ED 10. C	62			DVEKLAP	2 .
C				OVERLAN	707
C END OF RECEIVER FILE SWITCH SET OUT 40 OUT 11. TUNRH(13) TUNRH(13)-TH CD 10 40 OUT 11. TUNRH(13) TUNRH(13)-TH CD 10 40 OUT 11. TUNRH(13) TUNRH(13)-TH OUT 11.				DVERLAF	707
C END OF RECEIVER FILE SUITCH SET OUTELLA 10 END OF RECEIVER FILE SUITCH SET OUTELLA OUTE		- (OVERLAP	F 9 7
C END OF RECEIVER FILE SUITCH SET CD 10 40 C				DVERLAP	7 1
I	3			OVERLAP	697
C END OF RECEIVER FILE SWITCH SET 10 EOFSWALP 10 EOFSWA		7		OVERLAP	186
C END DF RECEIVER FILE SWITCH SET 10 EDFSW1. 10 EDFSW1. 11 INITIALIZE FOR NEW SET OF RECEIVERS 12 OVERLAP 13 OVERLAP 14 OVERLAP 15 OVERLAP 16 OVERLAP		وي	2	UVERLAP	187
C END OF RECEIVER FILE SWITCH SET 10 EOFSW-1. 10 EOFSW-1. 11 INITIALIZE FOR NEW SET OF RECEIVERS 12 INITIALIZE FOR NEW SET OF RECEIVERS 13 INITIALIZE FOR NEW SET OF RECEIVERS 14 INITIALIZE FOR NEW SET OF RECEIVERS 15 INITIALIZE FOR NEW SET OF RECEIVERS 16 INITIALIZE FOR NEW SET OF RECEIVERS 17 INITIALIZE FOR NEW SET OF RECEIVERS 18 INITIALIZE FOR NEW SET				OVERLAP	188
C INITIALIZE FUR NEW SET OF RECEIVERS OVERLAP 80 NEGCL=EQUIP(I:10)/10 80 NEGCL=EQUIP(I:10)/10 90 V3 J11,7 CONTINUE 16 (2011)=16 (2011) 16 (2011) 16 (2011) 10 97 CONTINUE 16 (2011)=10 16 (201		ر	END OF RECEIVER FILE SUITCH SET	OVERLAP	105
C INITIALIZE FOR NEW SET OF RECEIVERS OVERLAP 80 NEGCL=GOUIP(1:10)/10 10 97 J=1,7 AN1(1)=0 10 97 J=1,30 10 97 J=1,3	95			OVERLAP	190
C INITIALIZE FOR NEW SET OF RECEIVERS OVERLAP 80 NEOCL—EQUIP(11.10)/10 80 NEOCL—EQUIP(11.10)/10 80 NEOCL—EQUIP(11.10)/10 97 CONTINUE 100 97 J=1.7 9.7 CONTINUE 100 95 J=1.7 100 NE K=2.11 100 NE			DFS#*.1.	OVEKLAP	161
00 NEGCL-EQUIP(1120)/10 00 NEGCL-EQUIP(1130)/10 00 VJ J=1-7 00 NEGCL-EQUIP(1130)/10 00 VJ J=1-7 01 (113) NEGL (113) N		,		OVERLAP	192
80 NEOCL-EQUIP(1,10)/10 00 97 J-1,7 KNI(1)-0 97 CDN INUE 160(1) +631(1) -162((1) -161((1) -1 162(1) +1) -1 161(4,1)		Ų	INITIALIZE FOR NEW SET OF RECEIVERS	OVERLAP	163
### ##################################	,			UVEKLAP	* (
Variable	3		FULL = FULL FU	UVERLAP	£ .
97 CONTINUE 1GO(1)=MG31(1)=1G2L(1)=1G1L(1)=1 1GO(1)=MG31(1)=1G2L(1)=1G1L(1)=1 1GO(1)=MG31(1)=1G2L(1)=1G1L(1)=1 1GO(1)=MG31(1)=1 1G2(1)=1)=1 1G2(1)=1 1G3(1)=1)=1 1G3(1)=1 1G3(3 3		14.4477	
			010000		.
				- C - C - C - C - C - C - C - C - C - C	٦ ٩
DD 95 J=1,30 MG3(J)=1H IG2(J,J)=1 IG3(J,J)=1 IG3(J	4	-			•
MG3(1)=1H	3	- 2	TO TO TO TO TO TO TO TO		
		a i			
162(1).1)=1 162(1).1)=1 162(1).1)=1 162(1).1)=1 162(1).1)=1 162(1).1)=1 162(1).1)=1 162(1).1)=1 163(1).1)=1 163(1).1)=1 163(1).1)=1 163(1).1)=1 163(1).1)=1 163(1).1)=1 163(1).1)=1 163(1).1)=1 163(1).1)=1 163(1)		E •		TO LONGE	• 6
16213.17.17.17.17.17.17.17.17.17.17.17.17.17.			7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	OVERLAP	7 6
10. 05 N = 2.014 10. 05 N = 2.014 10. 05 N = 2.017 10. 10. 0 K = 2.017 10. 10. 0 K = 2.017 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) GD FU ID 10. 0 F(K; UCL = 0.3999) FU ID 10. 0 FU ID	•	- 6		UVEKLAP	20.
16213.K) = 10H 20 CONTINUE 50 40 K = 2.NIT 16113.K) = 10H 10 CONTINUE 50 CONTI	01	3	TANA CO O	MENSTOL	0 ;
161(J.K)=10H 161(J.K)=10H 161(J.K)=10H 161(J.K)=10H 161(J.K)=10H 162(IK)=IK)=IK =IK =IK =IK =IK =IK =IK =IK =IK =IK			62.1.5.X.) = 10H	UVERLAP	507
10 10 10 10 10 10 10 10				UVERLAP	602
10 CONTINUE 95 CONTINUE 95 CONTINUE 96 CONTINUE 97 CONTINUE 98 CONTINUE 99 CONTINUE 90 CON		٠.		NEWSTST.	1 5
10 CONTINUE 10 O 1 K-2-MAXL 10 O 1 K-2-MAXL 10 CONTINUE 10 O IF(K:JCL.Eq.)9999160 FU 110 10 O IF(K:JCL.Eq.)99999160 FU 110 10 O IF(K:JCL.Eq.)9999160 FU 110 10 O IF(K:JCL.Eq.)9999160 FU 110 10 O IF(K:JCL.Eq.)99999160 FU 110 10 O IF(K:JCL.Eq.)999999160 FU 110 10 O IF(K:JCL.Eq.)999999160 FU 110 10 O IF(K:JCL.Eq.)9999	,			DVEKLAP	200
DO 91 K-2, MAXL	13			UVERLAP	807
10 U 91 K-2*AMAXL 10 U 91 K-2*AMAXL 10 U 91 K-2*AMAXL 10 CONTINUE NUCLSMF. NUCLSM				NEWSYSI	77
		~	U 91 K-Z-JAAK	OVERLAP	507
JI CONTINUE NUCLSMF. NUCLSMF. OVERLAP C FIND MATCHING EUUIPMENT CLASS IN CALL SUMMARY FILE OVERLAP IOU IF(AEGUCI-EG-394993)GO FU 110 I+(ANDREAU)104,112 IOZ READ(25,1020) REJG(L.5.8)AIF(IEQCL(3),CUNVE(3),J=1,8) FINDLAP 1020 FURMAFILX,I4,A10,A3,I2,8(13,A3)			62L(K)* G1L(K)*#G3L(K)* H	NEWSYSI	13
DVERLAP		_	ONTINUE	NE #SYS1	1 4
OVERLAP C FIND MATCHING EUULPHENT CLASS IN CALL SUMMARY FILE DUERLAP 100 IF(AEUCL.EQ.)99991GD TO 110 IF INDREAD)106,102 16.104EAD)106,102 16.104DEAD(3.102) 16.104DEAD(3.102) 16.104DEAD(3.102) 16.104DEAD(3.102) 16.104DEAD(3.102) 16.104DEAD(3.102) 16.104DEAD(3.102) 16.104DEAD(3.102) 16.104DEAD(3.102)	20	Z	UCLSMF.	OVERLAP	220
C FIND MATCHING EUDIPHENT CLASS IN CALL SUMMARY FILE DVERLAP 100 IF(#EUCL.EQ.19499)GO TO 110 14.JAN 7		,		OVERLAP	221
100 IF(REJCL.EQ.19499)GO FO 110 14JAN77 1F(RUREAD)104,102 102 READ(4,1020) REJCL,4,8,N1,(FEQCL(J),CURVE(J),J=1,8) 1020 FORMAF(1x,14,410,43,12,8(13,43)) 1020 FORMAF(1x,14,410,43,12,8(13,43))		ن	FING MATCHING EQUIPMENT CLASS IN CALL SUMMARY FILE	OVERLAP	222
100 IF (#: GCL = 0.3999)GD TO 110 1				OVERLAP	£ 2 2
			FIRE OCL. Eq. 1949-160 TO 110	14JAN77	^
READ(*).1020)	2		F (NUREAU) 104, 132	14.3AN77	۰
FUKMAF(11xpI 40A100A301208(130A31)			EAD(**1020) REJCL,A,B,NT,(FEQCL(J),CURVE(J),J=1,8)	FINGLAP	31
			OKMAF (1xp [4. A10. A3. 12. 8(13. A3.)	FOCEOR	~

230					
230	103 IF (MI.L	(N) (1, 10, 10, 10)	OVERLAP	228	
535	KE		FINDLAP	33	
235	1025 FURNATIO		FINDLAP		
535		[F(LUF(9))270,105	FINDLAP		
535	104 NOREAUF.	· •	OVERLAP		
535	#	(MEGCL-WEGCL) 100,120,110	OVERLAP		
	141-11 411 00 011	1.01.1	UVERLAP	234	
	MPAGE = NPAGE+1	PAGE+1	OVERLAP	235	
		WRITE (3,1030) (EQUIP(II,J),J"1,10),MPAGE	OVERLAP	230	
		1 X + 4 A 1 O + 2 1 U + A 5 + R 2 + 1 X + A 9 + 1 X + I 5 + I 4 1	EQCL68		
	IIS CONTINGE	ú	OVERLAP	23	
240	IF (EQUIF	IF(EQUIP(I,10).ne.99999)ndread=.1.	E0C1 68		
		•	DVERLAP		
	120 CONTINUE		DVERLAP		
		č	OVERLAP	242	
376	י עאַ	FUR SE! OF RECEIVERS, LOUP INROGEM ALL INAMSHIIERS			
	T OFF OO	DAG Selle (FMS)	04-8149		
			OVERLAP		
		CK FREQUENCY RANGS OF TRANSMITTER AGAINST ALL RANGES FOR	OVERLAP		
	C RECE	RECEIVERS. IF IT DOES NOT OVERLAP ANY, IGNORE IT.	OVERLAP		
250			OVERLAP		
		122 Kelinitum	OVERLAP		
	- 6	("CONFL(K)"LE" KANS(J, G) . AND. ! UNKHIK) . GE. IKANSIJ, S) GU U 124	DVEKLAP	167	
	122 CON 1140E		OVERLAD		
755			OVERLAP		
:	CHEC	CHECK FOR THREE DIGIT MATCH IN CALL SUMMARY	OVERLAP	255	
			OVERLAP		
	124 IF INDCL	(NOCLSM) 60 TO 142	OVERLAP	~	
	ECL 3-TR4	ECL3-TR4NS(J,10)/100	E OC 1 6 B		
760			OVERLAP		
	<u>.</u>	(ECL3.EJ.TEGCL(K)) GU TO 150	OVERLAP		
	125 CONTINUE		DVERLAP		
			OVERLAP		
4.5	CHEC	CHECK FOR IND OLGIT MATCH IN CALL SUMMARY	OVERLAP		
607	0(1(1))=21)3	0110	OVERLAP	265	
	00 130 4=1541		0419140		
	IF tect.	(cC12.e0.(TeoCL(K1/10)) 60 TO 160	OVERLAP		
			OVERLAP		
270			OVERLAP		
	CCCHEC	CHECK FUR UNE DIGIT MATCH IN CALL SUMMARY	OVERLAP		
			OVERLAP		
	ECL13-ECL2/10	12/10	OVERLAP		
3 2 5	10/1e	11011717171	OVERLAP	5/3	
		יבליוובלרוחוונטון טון יו	TA T		
	TOUT OF THE PROPERTY OF THE PR		DVERLAP DVFELAP		
		Adematic first many set to an amount of the figure and the section of the first			
		INATERIER DUES NUI MAICH AMF EQUIPMENI CLASS IN CALL SUMMAN			
740			OVERLAP		
	142 NO-160(1)+1	1001	OVERLAP		
	1.6 IN O.L	IF IND.LE.MMAXL) GO FO 145	OVEALAP	281	
	KNT(1)-K	KN1(1)-KN1(1)+1	OVERLAP	202	
		90	OVERLAP	283	
282	145 CONTINUE		OVERLAP	284	

80/07/28. 13.56.57		OVERLAP 285	OVERLAP 289	OVERLAP 240		~		NEWSYSI 17		AL LANGE AND		NEWSYSI 22				MENOTOL CA	~		OVERLAP 29,					DVERTAP 302		_			TOTAL STATE		,			OVERLAP 316				DVERLAP 322		CALLAR 525		_	
FIN 4.8+498																																											
PROSRAM UVEKLAP 73/74 UPF-1	0N-(11091		C ADD TRANSMITTER TO THREE DIGIT TABLE		EACUDE (10, 1040, EQCL) ECL3	1040 FORMAT (110)	JF1EQCL.EQ.MG3(K))60 TO 156	LF(AGU(K), FD, LM DGD TO TOS	AKITE (O) IDIBECCE DESCRICE	SIDE FURNALITY OF STANDARD STA	155 R63-(X)-E3CL		IFIN3L.LE.NMAXLIGO TO 157	XXI(7)=XXI(7)+1				C ADD FRANSMITTER TO TWO DIGIT TABLES		160 NZ . IG2 (K , 1)	ECL 3 • ECL 3 • 1000000	ENCODE (10,1040,EQCL) ECL3	9	14 CONTINUE	IF(N2.LE.N27)60 TO 165	1	60 10 180	165 162(K-1)-N2	TO USE TO TAKE TO THE TAKE TO THE TAKE		00 10 180	167 152L(11)*M2L	1621(N21)*J	50 10 180	STIEST LIBER TO ONE OF SELECT TABLES	170 N1=161(K+1)	ECL 3=ECL 3+1000000				(F (N) 11 . N1116.) 10 3.75	KNT(2)*KNT(2)+1	
			290			295				30.5	}				302			310				;	312			320			3.25	;			;	350			332			14.1	?		

	PRUGRAM UVERLAP	73/74 UPT=1 FIN 4.8+498	0/37/28.	80/07/28. 13.56.57	
345	1 27 L	6D 10 180 1614(*1)*N1 1614(*N1)*EUCL N1L-161(1)*1	OVERLAP OVERLAP OVERLAP NEWSYSI		
350		IN TACKLE AND AND TO THE TACKLE AND	UVERLAP OVERLAP OVERLAP NEUSYSI NEUSYSI OVERLAP	7 4 56 70 70 70 7 76 76 76 76 7 76 76 76 76 7 76 76 76 76 76 76 76 76 76 76 76 76 76	
355	J.	OUTPUT INFORMATION FOR SET OF RECEIVERS Starz=1	OVERLAP OVERLAP OVERLAP	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
960	1000	IF (MOCLSM.DR.IGO(1).GF.1) STAR2=2 CALL NEWEG (LEGCL.STAR1,MEOCL.STAR2) LEGCL.MEUCL STAR1=STAR2 WRITE (0.1050) WRITE (0.1050)	0VERLAP 0VERLAP 0VERLAP 0VERLAP 0VERLAP	M 4 S 4 P 4 P 4 P 8 P 8 P 8 P 8 P 8 P 8 P 8 P	
365	10901	FORMAT (16A*EQP CHNL+34X+TUNING RANGE+5X+U F F EQUIP. CLASS NO.+/ 1 13X+CJNP+ 2 + MGD CUMPGNENT NAME+20X+LUW HIGH+4X+S G U+5X+NEW+5X+GLO+/ 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DVERLAP DVERLAP DVERLAP	20 1 20 1 20 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
370	1070 F	LINE-LINE-Y LO 165 List, I WAITE (6.1070) (EQUIP(II.JJ).JJ-1.10) FORMA(II44.A10.1X.3A10.219.1X.A5.R2.1X.A10.1X.I5) LIME-LINE-1	UVERLAP UVERLAP EQCL68 UVERLAP	* \$ 4 - \$ \$ \$ \$ 4 - \$ \$ \$ 6 - \$ 8 - \$ \$ 6 - \$	
375	_	IF (NTUMR.LE.1) GO TO 186 WAITE (6,1040) FURMAT (100%,27M++++++++++++++++++++++++++++++++++++			
3 60	C 186 K	BUTPUT CALL SUMMARY AND THREE, TWO AND ONE DIGIT MATCHES K2.0	UVERLAP OVERLAP OVERLAP	366 366 367 368	
3 8 5		IF (.NJF.NJCLSM) GO TJ 187 WHITE (6,1035) FURNAT (/274 ************************************		969 970 973 973	
390	187 7 7 1		OVERLAP UVERLAP OVERLAP OVERLAP	375 376 377 378	
5+6	148 6	IF IKZ.GI.MI) KZ=NI DD 189 K=K1.K2 TE-OCL=FECCL(K1)+1000000 ENCODE(10-1040-TEOCL(K1))ITEOCL CUNIINUE DECODE(08-32-00-A1)UMAVAL IF (1.E0-216J FU 189	OVERLAP OVERLAP NEWSYS1 NEWSYS1 UVERLAP MATCH3	9.4 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0	

3200	FURMATTER.2) DECODE (U3+32U2+8) OMVAR	MATCH3	3.5
3202	_	MA TCH 3	36
.066		RAICHS	÷ (
5035	CONTROLLY CALL SOMERY A WALCE - PETECTY WANTED OF A CALL INC.		4.2
189	_	MATCH3	45
•		OVERLAP	364
O.O.T	I INFe! INFe3	MAICH3	7
	IF (LIME.GT.60) CALL NEWPG (NEGCL,STARZ,NEGCL,STARZ)	OVERLAP	389
•	WR I TE (6, 1110) (MG3(K),	MEMSYSI	36
0111		NEES YST	76
	LINE LINE . GI. 60) CALL NEWPGINEOCL, STARZ, NEOCL, STARZ)	MATCHS	2.0
	N2+0	UVERLAP	3.40
	DO 190 K*KL*K2	OVERLAP	3+1
001	14 (162(K)1),61,N2) N2=162(K)1)	OVERLAP OVER AD	346
		OVERLAP	3.4
	WHITE (6,1120) (132(K,L),Kakl,K2)	OVERLAP	395
1150	FORMAT (* 2 DIGITS *15(R3,4X))	OVERLAP	346
1.72	֭֓֞֞֞֜֞֜֞֜֜֞֜֜֡	OVERLAP	347
301	IF (L.GI.A2) 60 TO 199	UVERLAP	9 0
1125		OVERIAP	005
	_	OVERLAP	401
199	LINE-LINE+N2	OVERLAP	405
	IF (LINE.GT.50) CALL NEWPG (NEOCL,STARZ,NEOCL,STARZ)	OVERLAP	403
	DD 200 4.Klak2	OVERLAP	405
	IF (IGI(A,1).GT.NI) NI-[GI(K,1)	OVERLAP	406
200	CONTINUE	OVERLAP	407
		OVERLAP	408
		OVERLAP	604
0611	L CK PA	DVERLAP	
707	-	OVERLAP	11,
205		DVFRIAP	7 7 7
}	60 10 203	OVERLAP	515
607		OVERLAP	415
		DVERLAP	416
210	CONFINUE	OVERLAP	715
٠	SCORES CONTRACTOR CONTRACTOR	Y SALV	م ٥
,	COLLOI SELECTED ADAIRTA FILE TOR READUS	CLSMRY	- 60
		CL SNR 73	· m
	IF (N[.Gf.8) JN[.a	CL SARY 3	•
•		FINDLAP	9.
75 1 1	ē :	2010	7 :
		FINILAP	17
1134	_	FINDLAP	38
	Surger and the same and the same same and the same and th	OVERLAP	418
٠	COITOI CONFLETE RELUKUS FUR 1807 UNE AND EEKU DIGIT MATCHES		-
		OVE DIAP	420

*	PROGRAM UVERLAP 73/74 OPT-1	80/07/28. 13.56.57	13.56.57	PAGE
	1140 FURMAIL/* COMPLETE RECUADS FUR PUTENTIAL INTERFERENS *)	OVERLAP	725	
	E-LINE.2	OVERLAP	423	
660	IF (LIME.GI.50) CALL MEAFG (MEGCL.STARZ-MEGCL.STARZ) EGIT: (A.1060)	DVERLAP	125	
		OVERLAP	456	
	IF (LIME.GI.00) CALL NEWPG INESCL.STARZ, MEQCL, STARZ)	OVERLAP	457	
	1F (NUCLSM) 60 TO 250	OVERLAP	428	
		MATCH	22	
467	ZITY WRITE (6,5260)	MAICH	e 6	
		MATCH	. 9	
	IF (LINE 67 - 60) CALL NEWPONEUCL - STARZ - NEUCL - STARZ -	MATCH3	3 3	
	L3-NG3L(1)	NE ASYSI	36	
470	IF(13,Eq.116J fQ 5265	NA I CH3	10	
	00 5261 [*2,13	MATCH3	6 5	
		NEUSYSI	0,	
	# # # # # # # # # # # # # # # # # # #	EATCE 2		
475	TISTIFF OF AN TOTAL BELEGIES OF START STARTS	MATCHS	3 2	
<u>:</u>	_	MATCH3	2	
		MAICH3	11	
	11501	OVERLAP	4 30	
		OVERLAP	431	
787	LINE+LINE+2	OVERLAP	432	
	IF (LINE.GI.60) CALL NEWPG (NEOCL,STARZ)	OVERLAP	433	
	1621(1)	NEESTS I	7	
	1F (1Z. EU.) 6U 1U Z37	CVERLAP	430	
1.85		MENCYS		
•	ERITE (6,1070) (TRANS(N,J),J-1010)	OVERLAP	439	
	INE- INE-1	OVERLAP	044	
		UVERLAP		
	230 CDMIINUE	OVERLAP	245	
4 90	_	OVERLAP	443	
	WRITE 16,1150	OVERLAP	75.	
	1160 FURNICA I DIGITAL	DVERLAP	٠٠,	
	TIME OF THE CONTROL SECTION OF THE S		0 7 4	
0		N- KYYSI		
`	IF (L1.E0.1) 30 TO 243	OVERLAP	420	
	; ;	OVERLAP	451	
	M=1G1L(t.)	NEHSYSI	;	
	WRITE (6,1070) (TRANS(M,J),J=1,10)	DVLRLAP	453	
200	LINCALINE	DVERLAP	424	
		DVERLAP	455	
	245 COMPLIANCE	OVERTA	979	
		04591		
505	1170 FORTAL (/+ 0 OLGES+)	OVERLAP	459	
	LINE -LINE +2	OVERLAP	094	
	IF ILIME.GI.60) CALL NEWPG INEUCL.STAR2, NEUCL, STAR2)	OVERLAP	195	
	-16061)	UVERLAP	294	
•		OVERLAP	463	
016	07.29.00	UVERLAP	5 Q F	
	CIPTURE TO THE PROPERTY OF THE	DVERLAP	94	
		OVERLAP	467	

TABLE XXXVII. OVERLAP COMPUTER LISTING (CONT)

ILLINGI	200	IF (LINE.31.60) CALL NEWPG (NEQCL.STAR2.NEQCL.STAR2) Continue	OVEKLAP OVEKLAP	904
26. IF (:MOI.RECS.4) GU TO 262 1172 [FILID C.1.0.0] CALL NEUFG (MEGCL.) TARZ.MEGCL.5TARZ.) 1172 [FILID C.1.0.0] CALL NEUFG (MEGCL.) TARZ.MEGCL.5TARZ.) 1173 [FILID C.1.0.0] CALL NEUFG (MEGCL.) TARZ.MEGCL.5TARZ.) 1174 [FILID C.1.1.1.2] RECMAINEGCL 26. RECKLOS DO 26. TO 26.3 1175 [FILID C.1.1.2] MEGNATHEGCL 1175 [FILID C.1.2.1.2] MANKEL.] 1176 [FILID C.1.2.2] MANKEL.] 1176 [FILID C.1.2.2] MANKEL.] 1176 [FILID C.1.2.2] MANKEL.] 1177 [FILID C.1.2.2] MANKEL.] 1178 [FILID C.1.2.2] MANKEL.] 1179 [FILID C.1.2.2] MANKEL.] 1170 [FILID C.1.2.2] MANKE		COUTPUT MESSAGES CONCERNING EXCESS NUMBERS OF	OVERLAP UVLRLAP	677
	797	IF (:NDI:RECSA) GU TU 262	DVERLAP	355
1177 FORM 1 19(1) 202 BECKLAP WHITE (0-1173) RECMAZAMEOL 1173 FORMAIT (19(1)) 1174 FORMAIT (19(1)) 1175 FORMAIT (19(1)) 1176 FORMAIT (19(1)) 1176 FORMAIT (19(1)) 1177 F		IF (LINE.GI.bu) CALL NEWPG (NEQCL, STARZ, NEOCL, STARZ)	DVERLAP	52
11/3 FORMAIL 10 10 10 10 10 10 10 1	1172	MRITE (6,1172) Format (5,71)	OVERLAP	476
202 RECSU-F. 202 RECSU-F. 202 RECSU-F. 202 RECSU-F. 203 CALL SUMMIT-1 11.75 FORMAT (18.15) FORMARCHI) RECEIVERS WITH EQUIPMENT CLASS **14/7/7) OVERLAP 11.61-62-201 GA) GA) GA GA 11.75 FORMAT (18.15) FORMARCHI) REMARCHI) RESPONSE TO THE (18.1175) MARKELI) RESPONSE TO THE (18.1175) MARKELI) REMARCHI) REMARCHI) REMARCHI) REMARCHI) REMARCHI) REMARCHI) REMARCHI) REMARCHI) REMARCHINCH THERE WAS NO RECRAP OVERLAP TO THERE WAS NOTED TO THE CONTRAD TO THE CONTR		WRITE (6,1173) RECMANAMEDCL	OVERLAP	478
	1173	FORMALL MORE THAN P.15. RECEIVERS WITH EQUIPMENT CLASS	FOCION	~ ?
If (A.C.) GD 10 203 If (A.C.) CD 10 201 PM MATCH A.C. WERE PRINTED.** OVERLAP	70 7		MAICH3	72
IF (K.EQ.D) GJ TO 263 IF (J.EQ.THWRIT-1 NHARL-1 NHEWSYSI IF (J.EQ.THWRIT-1			OVERLAP	482
		(K.EQ.0) GU TO	OVERLAP	F 8 3
		15.2.53.2.23.23.11-1	MENSYSI	;
IF (MODIJIATE OLITY) NUMBER NUMBE		1-127-2(01)-1-11	Nc 45YS1	;
WITE (6.1173) WARRE(1) FROM TABLE 04.0 WERE PRINTEQ.0.0 1.		IF (NO)(J,2).Eq.1) N-NMAXL-1	OVERLAP	485
11/5 FORMAT (11x 1)* GUEFRELS FROM TABLE ************************************			OVERLAP	486
263 CONTINUE 1	1175	TABLE GASO WERE		487
263 CONTINUE 1 INTITALIZE FOR MEXT SET JF RECEIVERS 265 IF (EDFSM) 300,266 260 0 267 JJLJ10 267 CONTINUE 1 10 NUMBLL1) = 0.959 EUUIP(1.5) J 260 TO 40 270 RECEL-94994 27	- '	FOR WHICH THERE		4 4 4
265 IF (EDESW) 300,266 265 IF (EDESW) 300,266 266 DO 267 J-1,10 266 DO 267 J-1,10 267 DO 267 J-1,10 268 DO 267 J-1,10 268 DO 267 J-1,10 268 DO 267 J-1,10 268 DO 267 J-1,10 270 RECEL-99999 270 RECEL-999999 270 RECEL-99999999999999999999999999999999999		•	DVCKLAP	7 C
10. INITIALIZE FUR MEXT SET JF RECEIVERS 265 IF (EDFSW) 300,266 266 00 267 J=1,10 267 CONTINUE 1-1 NTUNR-1 1-1 NUERLAP 10. 10	503		OVERLAP.	20,
265 IF (EDFSW) 300-266 266 00 267 J-1,10 266 00 267 J-1,10 267 00 267 J-1,10 267 (2017)	J	INITIALIZE FUR MEXT SET OF RECEIVERS	OVERLAP	492
265 IF (EUFSM) 300,266 260 10 (267 J=1,10) 260 10 (267 J=1,10) 261 CONTINUE 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			OVERLAP	443
200 DUERLAY 201 CONTINUE 201 CONTINUE 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-	265	IF (EDFSH) 300,266	OVERLAP	404
267 CONTINUE 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1	997	UU 267 Jaljiu Fortipella ila Fortipella la	OVERLAP OVERLAP	4 4 6 4 5
	267		OVERLAP	264
NTUNR*1			OVERLAP	964
TUNRL(1)=0.995#GUIP(1.5) TUNRH(1)=1.005#EJUIP(1.6) GO TO 40 GO TO 40 270 REGCL*+4999+ GU 1.0 GU 1.0 1.0 ERROR — FND MANY RECEIVERS FOR SET 14.1AN77		NTUNR - 1	OVERLAP	774
TUNKHILL) - 1005*E3UIPII.00) GO TO 40 GO TO 40 ERROR - ENU JF CALL SUMMARY GU TU 110 GU TU 110 CU TU 110 ERROR - TOO MANY RECEIVERS FOR SET 14.3AN 7 14.3AN 7		TUNKL (1) =0, 495*EQUIP(1,5)	OVERLAP	200
######################################		TUNKH(1) -1.005+E3UIP(1.6)	OVERLAP	501
270 REGCL*94994 270 REGCL*94994 GD 1U 110 GD 1U 110 14JAN77 1			OVERLAP	200
270 REGCL-99999 GU TU 110 GU TU 110 GU TU 110 GU TU 110 ERRUR - 100 MANY RECEIVERS FOR SET 290 RECSM-1. 1-49 10-49 10-49 10-40 10-49 10-49 10-49 10-49 10-40 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-41 10-49 10-49 10-41 10-41 1	Ļ	•	DVERIAR	50.5
270 REGCL.49994 GU TU 110 GU TU 110 GU TU 110 ERRUR - TOO MANY RECEIVERS FOR SET 290 RECSu-1. GU TU 40 UUTPUT LIST UF RECEIVERS WITH NU MATCHING CALL SUMMARY OVERLAP I - 1 I - 1 ENDFILE 3 NEMSYSI ENDFILE 3	•		OVERLAP	505
CU TU 110 CU TU 110 ERRUR - TOD MANY RECEIVERS FOR SET 290 RECSW1. 1-49 GU FR LAP GU FR LAP GU FR LAP GU FR LAP GU TO 40 UUFUT LIST UF RECEIVERS WITH NU MATCHING CALL SUMMARY OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP I - 1 I - 1 WHISTS 1030) (EQUIP(1, J), J-1, 10), MP AGE ENDFILE 3 NEWSYSI RESSTS 1	270	REOCL . 44494	14JAN77	•
EARDH - 100 MANY RECEIVERS FOR SET 290 RECSM=1. 1=49 60 TO 40 JUTPUT LIST OF RECEIVERS MITH NO MATCHING CALL SUMMARY 1=1 OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP MPAGE=0 I=1 WRITE(3)-1030)(EQUIP(I,J),J=1,10),MPAGE ENDFILE 3		GB 7U 110	T4JAN77	9
290 RECSM1. 290 RECSM1. 1-49 60 TO 40 OVERLAP OV	,	2000 20000 2	OVERLAP	910
290 RECSUM.1. 1=49 GO TO 40 UNITY LIST OF RECEIVERS WITH NO MATCHING CALL SUMMARY OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP OVERLAP I = 1 WRITE(3) 1030)(EQUIP(1, J), J=1, 10), MPAGE ENDFILE 3	,	TOO DAME ACCEIVERS FOR	0410170	
1449 60 TO 40 UVERLAP UUTPUT LIST OF RECEIVERS AITH NO MATCHING CALL SUMMARY OVERLAP 300 CONTINUE MPAGE 0 1-1 NEWSYSI KNOFILE 3 NEWSYSI KNOFILE 3	290	26CSE.1.	OVERLAP	213
GO TO 40 OVERLAP OV		0.4	NEWSYSI	z,
UVERLAP 300 CONTINUE 300 CONTINUE MPAGE-0 I-1 WENSYSI ENDFILE 3		00 10 40	OVERLAP	521
HOUPUL LIST OF RECEIVERS WITH NO MAICHING CALL SOUMARY OVERLAP 300 CONTINUE MPAGE-0 I-1 WRITE(3.1030)(EQUIP(I.J),J-1,10),MPAGE ENDFILE 3 NEWSYSI ENDFILE 3	,		OVERLAP	225
CONTINUE OVERLAP S MPAGE-O L-1 WRITE(3,1030)(EQUIP(1,J),J-1,10),MPAGE NEWSYS1 ENDFILE 3	ن	COLPUT LIST OF RECEIVERS AITH NO MATCHING CALL SUMMARY	OVERLAP	523
MPAGE-0 I-1 WRITE(3,1030)(EQUIP(I,J),J-1,10),MPAGE NEWSYS1 NEWSYS1 NEWSYS1 NEWSYS1 NEWSYS1	300		OVERLAP	524
NEWSYSI 1030)(EQUIP(I.J),J.I.),MPAGE NEWSYSI 3)	APAGE =0	NEWSYS1	5
NEESYSI NEESYSI		1-1	NE WSYS1	50
3 NEWSYSI		WKITE(3,1030)(EQUIP(1,1),1-1,10), MPAGE	NEWSYSI	51
			- 0 2 2 2 2 2	2

BLE XXXVII. OVERLAP COMPUTER LISTING (CONT)

				TABLE XXXVII. OVERLAP	OVERLAP COMPUTER LISTING (CONT)	(CONT)		
	PROGRAM UVERL	UVERLAP	71111	001-1	FIN 4.8+498	80/07/24. 13.56.57	13.56.57	PAGL
		5	II WEAPG IL	CALL NEWPG (LEGCL,STARI,0,1)		UVERLAP	527	
		æ	AD (3-1033)	REAU (3.1033) (EJUIP(1,1),1-1,10),MPAGE		ENOF		
		-	1FINPAGE.61.016U TO 301	1160 10 301		NEWSYSI	53	
		_	ur i i e (5, 1 l a 5)			NE MSYS 1	*	
57¢		1145 FO	JRMAT 11/10	FORMAI 1111+ ND MISSING CALL SUMMARIES.+)		ENDF	•	
		_	60 TO 310			ENDF	~	
		301 ER	HR 1 TE (6, 1085)			NENSYS1	55	
		-	WRITE (6,1060)	2		OVERLAP	529	
,		_	MRITE (6,11,40)	2	٠	OVERLAP	530	
280		1190 FU	FURRAL (************************************	X+PAGE+/1		OVERLAP	531	
		=	INE .L INE .			OVERLAP	532	
		_	60 10 305			MENSYSI	26	
		30.1 RE	AD (3, 1030)	READ (3,1030) (EQUIP([,1),1-1,10),MPAGE		ENDF	•	
		_	[F (EDF (31)310,305	1, 305		FINOLAP	9	
262		305 IF	IF (MPAGE . EQ. 010.1 TO 310	10.3 TO 310		NEUSYS1	57	
		3	I TE 16. 1070)	HR! TE (6.1070)(EQUIP(I,J),J.1),10)		NEMSYSI	20	
		_	HRITE (6,1200) MPAGE	1) MPAGE		OVERLAP	537	
		1200 FU	FUANAL LOCOLUX.14)	(X-14)		OVERLAP	536	
		Ĩ	NE=LINE+1	NE		OVERLAP	539	
280		-1	(L INE.GT.6	O) CALL MEMPG (0,1,0,1)		OVERLAP	540	
		_	60 10 303			ENDF	01	
		310 00	CONTINUE			OVERLAP	245	
		E.	ENDFILE 8			NEWSYSI	56	
,		# #	ENIND &			NEWSYSI	9	
543		X	EVIND 1			NEBSYST	19	
		Ž	CALL MEMPOLOSISOSII	1,0,1		CL SHRY 3	1	
		Q W	9			FINDLAP	7	

TABLE XXXVII. OVERLAP COMPUTER LISTING (CONT)

SUBROUTINE NEWPG	73/74	1-140	-	FIN 4.8+498		80/07/28. 13.56.57	13.56.57	-
	SUBROUTINE	SUBRUUTINE NEJPG (N.I.M.J)	•			OVERLAP	244	
						OVERLAP	545	
	DIMENSION STAR(2)	TAR(2)				OVERLAP	546	
		,				OVERLAP	241	
	INTEGER CCC.STAR	STAR				OVERLAP		
						OVERLAP		
	CONMUN/COM/	COMMUNICOMILINE, MPAGE, KLASS	A55			OVERLAP		
						OVERLAP	551	
	DATA (STAR-10H		101100000000000000000000000000000000000			OVERLAP	552	
_						OVERLAP	553	
	CCC • 1 H 2					OVERLAP	554	
	WRITE (6,10)	DOD CCCARLASS	WRITE 16,1000) CCC.ALASS.N.STAKIII, NPAGE				555	
1000	FURNATIAL.6	34. A 10, 20X, *R	1000 FURMATIAL.63x.alo,20x, eREC.EG.CLASS +,14,1x,a8,1x, +PAGE NO. +,15)	. LX, *PAGE &	10. 4,151	EUCLOB	<u>*</u>	
	HI-333					NEUSYSI	9	
	NPAGE-NPAGE+1					OVERLAP	550	
	WRITE (6,10)	00) CCC.KLASS	WRITE (6,1000) CCC,KLASS,M,STAA(J),NPAGE			OVERLAP	559	
	LINE-2					OVERLAP	260	
	RETURN					OVERLAP	196	
	END					OVERLAP	295	

SECTION 12 - PROGRAM AMCSMNT [19]

12.1 PURPOSE

Program AMCSMNT 19 adds new data records or makes changes to data records presently contained in the master equipment call summary file.

12.2 PRINCIPAL FUNCTIONS

Program AMCSMNT, shown in figure 45, uses as input the old master equipment call summary file, together with call summary update cards, and outputs an updated master equipment call summary file for use in program OVERLAP [18]. The primary functions of program AMCSMNT are as follows:

- a. Inserts, in proper sequence, data contained in update cards for new call summaries.
 - b. Deletes data records for old call summaries.
 - c. Modifies data fields in existing call summary records.

12.3 INPUT/OUTPUT DESCRIPTION

Input to program AMCSMNT includes update data cards and the old master equipment call summary file. The data card input file must be sorted first in ascending order on receiver class code (columns 3-6), second in ascending order on R/T code (column 1), third in descending order on card sequence (column 2), and finally in ascending order on card order (columns 69-70). Output is the updated master equipment call summary file for input to program OVERLAP 18 . A special print program CALLSM is used to produce a listing of the output file.

12.3.1 Input Format

The format of input data for program AMCSMNT is given in the following figures and table:

- a. Transmitter update card (29), figure 46, page 12-4.
- b. Receiver update cards (29), figure 47, page 12-5.
- c. Master equipment call summary file 27, table XXXVIII, page 12-10.

12.3.2 Output Format

The format of the updated master equipment call summary file output by program AMCSMNT is given in table XXXVIII.

12.4 PROCESS DESCRIPTION

- a. Program AMCSMNT is written in FORTRAN EXTENDED for the CDC CYBER 172 computer and requires 60000_8 words of central memory for execution.
 - b. An update record is read, and the type of update is determined.
- c. For a receiver call summary to be added, the update record is inserted in the proper sequence in the updated master equipment call summary file. For a deletion, the entire record is removed from the updated master file. To change the value of A and its variance, the matching call summary is found, and the new data inserted are in the record output to the updated call summary file.
- d. For transmitter data updates, the matching receiver call summary record is found. For an add-on, the new transmitter data are inserted following the referenced transmitter, and the record is output to the updated file. For a deletion, data for the referenced transmitter are deleted from the output records. To change individual data values, the new data replace those for the referenced transmitter in the output record.
- e. This process is repeated until all the updates have been completed and the updated master equipment call summary file is output.

12.5 PROGRAM OPERATION

Figure 48, page 12-12, is a listing of all system and UPDATE cards necessary to execute AMCSMNT and its print program CALLSM for a typical computer run.

12.6 LIMITATIONS

There are no program limitations other than defined field and record size for the master equipment call summary file.

12.7 RUNNING TIME

Running time is estimated at 1 minute per 100 update records.

12.8 COMPUTER PROGRAM LISTING

A complete computer listing of program AMCSMNT, its subroutines (RECWRT, TRNFND, RECPUT, RECFND, and TRNADJ), and program CALLSM is presented in table XXXIX, page 12-13, annotated to aid in the understanding of the program functioning.

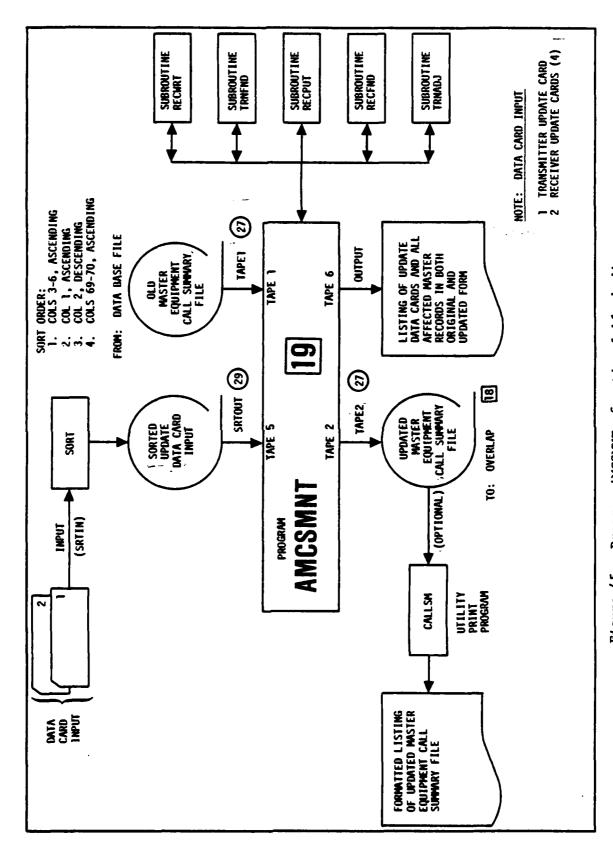


Figure 45. Program AMCSMNT, functional block diagram.

FIELD DESCRIPTION "T" for transmitter change.	A 1-character alphabetic code indicating type of change: A = New transmitter class code and curve number will be inserted following the referenced transmitter class code and curve number in the record for the given receiver class code. C = New transmitter class code and curve number will replace the referenced transmitter class code and curve number will replace the referenced transmitter class code and curve number will be deleted from the record for the given receiver class code and curve number will be deleted from the record for the given receiver class code. A new transmitter class code and curve number are not required.	Receiver class code.	Referenced transmitter class code.	New transmitter class code.	New curve number,	Sequence number for all code A cards for a given receiver class code. Sequence number 01 is processed first, card 02, second, card 03, third, etc.
MIEMONIC	TEST2	REC1	REFTRN	TRNEW	CRVNEW	
BCD FORMAT	R1	14	A3	A3	A3	
CARD COL	7	3-6	7-9	10-12	13-15	69–70
FIELD NO.	2	٣	4	٠	9	7

Figure 46. AMCSMNT input, transmitter update card (29) .

FIELD NO.	O. CARD COL	BCD FORMAT	MNEMONIC	FIELD DESCRIPTION
CARD 1				
-	1	R1	TEST1	"R" for receiver change.
8	7	R1	TEST2	A 1-character alphabetic code indicating type of change: A = New receiver class code will be added in sequence to the new master data file along with the transmitter data found on cards 2, 3, and 4. C = New A and sigma A value in card columns 11-23 will replace these values in the record for the given receiver class code. Requires card 1 only, columns 1-6 and 11-23. D = Receiver class will be deleted. Requires card 1 only, columns 1-6.
6	3-6	14	REC1	Receiver class code.
4	7–8	12	ITRAN	Number of sets of transmitter data to be added (1 \leq number \leq 30).
5	9-10	A 2	T1	Blank
•	11-23	A10,A3	T2,T3	Columns 11-18 = A value in hundredths of a dBm; column 19-23 = σ_A^2 in tenths of a dB ² .
7	04-69			"01" for card 1.
CARD 2	(Required if code =	de = A on card 1)	d 1)	
-	1			"R" for receiver change.

Figure 47. AMCSMNT input, receiver update cards (29)

FIELD NO.	NO. CARD COL	BCD FORMAT	MNEMONIC	FIELD DESCRIPTION
2	2			"9" for card 2.
٣	3–6			Receiver class code.
4	7-9	A3	RECOUT(1,1)	Transmitter class code 1.
٠	10-12	А3	RECOUT(2,1)	Curve number 1.
9	13-15	A 3	RECOUT(1,2)	Transmitter class code 2.
7	16-18	A 3	RECOUT(2,2)	Curve number 2.
•	•		•	•
•	•	•	•	•
	• •	• •	• •	• •
22	61–63	А3	RECOUT(1,10)	Transmitter class code 10.
23	99-99	A3	RECOUT(2,10)	Curve number 10.
24	04-69			"02" for card 2.
CARD 3	(Required if number		of sets > 10 on card 1)	
-	1			"R" for receiver change.
7	2			"8" for card 3.
6	3-6			Receiver class code.
7	7-9	A3	RECOUT(1,11)	Transmitter class code 11.

Figure 47. AMCSMNT input, receiver update cards (29) (cont).

FIELD DESCRIPTION Curve number 11.	• •		Transmitter class code 20.	Curve number 20.	"03" for card 3.		"R" for receiver change.	"7" for card 4.	Receiver class code.	Transmitter class code 21.	Curve number 21.		Transmitter class code 30.	Curve number 30.	"04" for card 4.	
MNEMONIC RECOUT(2,11)	• •	• •	RECOUT(1,20)	RECOUT (2,20)		sets > 20 on card 1)				RECOUT(1,21)	RECOUT(2,21)		RECOUT(1,30)	RECOUT(2,30)		
BCD FORMAT A3	• •		A3	A3		nber of sets >				A3	A3		A3	A3		
CARD COL 10-12			61-63	99-79	02-69	(Required if number of	-	2	3-6	6-2	10-12		61-63	99-79	02-69	
FIELD NO.	• •	• •	22	23	24	CARD 4 (R	-	5	٣	7	٧.	• •	22	23	24	

Figure 47. AMCSMNT input, receiver update cards (29) (cont).

INTENTIONALLY BLANK

File Descri	lption: Master Ed	quipment Call Summary File (27)
	TAPE1/TAPE2	Logical Unit: 1/2
- 		Record Length: 68 characters
Origin:		maintained by programs AMCSMNT and CALLSM
Used By:	OVERLAP [18];	AMCSMNT 19

TABLE XXXVIII. MASTER EQUIPMENT CALL SUMMARY FILE (27)

Data Description	Field Size	Field Position	Remarks
Receiver ID code	5	1-5	The middle 4 digits of the 6-digit equipment class code, right-justified. The middle 4 digits uniquely identify the equipment type.
"A" value	80	6-13	Threshold value of Ŝ (in dBm), the desired RF signal level, for 50 percent probability of satisfactory operation in the absence of interference other than receiver noise. Expressed in hundredths of a dBm.
Variance of "A"	ın	14–18	Variance parameter (in dB ²) of a Gaussian distribution function that is fitted to the function relating the probability of satisfactory operation to Ŝ, in the absence of interference other than receiver noise. Expressed to nearest tenth of a dB ² .
Number of expected interferer classes	2	19-20	The number of expected interferer classes for this receiver equipment class, presently limited to 30.
Interferer equipment class (1)	က	21–23	The 2nd, 3rd, and 4th digits of the 6-digit class code for one potential interferer equipment class for this receiver.
Scoring curve ID (1)	e	24-26	The ID number of the "B" matrix scoring curve to be used for scoring interferer equipment class (1) and this receiver.
(See note on following	page)		

TABLE XXXVIII. MASTER EQUIPMENT CALL SUMMARY FILE (27) (CONT)

Remarks		The last two data items (interferer equipment class and scoring curve ID) are repeated for up to 8 equipments per record ending in field position 68. If there are more than 8 expected interferer classes, data are continued in the next record in the same format (field positions 1-20 are identical and interferer class (9) starts in positions 21-23, etc.). This procedure is followed for a maximum of 30 interferer classes for each receiver ID code. The number of records for each receiver ID code is a function of the number of expected interferer classes (field positions 19-20). The maximum number of records is 4, with 8 interferer classes per record to the maximum of 30.	
Field Position		equipment g in field ued in the lass (9) stereferer class a function um number o	
Field Size		(interferer ecord ending are continuterferer cum of 30 interferer rill code if The maxim 30.	
Data Description	NOTE:	The last two data items up to 8 equipments per r interferer classes, data 1-20 are identical and i is followed for a maximu records for each receive (fleld positions 19-20).	

7	ALCOAL ALCOAL ACCORD	UPDATE
2	OSERICE OSER 10 ++1	
~	CHARGE (WADDO, N.)	
7	COMMENT.	
2	CORNENT. TASK NAME	
6	_	
2		
3	GET (EQ IP - EQ IPCXU/UN - BILL IE, NA)	
2	UPDATE (P = EO IP, Q)	
101	FIZCE SENDENCE SENDEN	
	UPDATA (PERIP, D)	
121	FINCIAR 3.8 CALLSM)	
133	UNLOADIEGIP	
(51	CCP4CK LAPUT, SATOUT)	
15)	REWINDUSTOUT	
16)	SET CLAPE 1 CL SMRTU/NA)	
171		
191	CALLSMITAPEZI	
131	REPLACE(TAPE1-BKPSHRU/NA)	
201	REPLACE (TAPE 2 o CL SHRY J/NA)	
213	7-8-4 CARD	
22)	TASK CHANGES FOR ANCSHIE	
23)		
54)	TACALLSM	
25)		
70)	=	
273		
20)	5081	
291	FILE, INPUT - SRI IN (U), DUTPUT - SRIDUT (CR)	
301	FIELD.RTCODE(1,1,1,01SPLAY),TYPE(2,1,01SPLAY),REGCL(3,4,01SPLAY),	(3) 4, DISPLAY),
31.0	.080(69,2,01SPLAY)	
321	KEY, WEGCL (A. ASCIIO), RICODE (A. ASCIIO), TYPE (D. ASCIIO), DRD (A. ASCIIO)	6), ORD (A, ASCII6)
33)	EX0	
34)	7-8-4 CARD	
35)	A-MAIRIC CALL SUMMARY FILE UNCLASSIFIED	160
36)		
373	6-7-8-9 CARD	

TABLE XXXIX. AMCSMNT COMPUTER LISTING

	PROGRAM ANCSMUTTAPEL, TAPEZ-SATOUT, OUTPUT, TAPES-SRIOUT,	FINANCS	
·		1245744	, ,
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, ,	*****		•
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. ر	2:	AMCSHNI	3∶
, ر	TAVE O 15 PRINTED DOIPOI	1210014];
,			7 :
	CIMENSIAN CARUIN (G) RECOOLICASOINELSAVIZI	ATCORN	-
		AMCSHA	<u>.</u>
	INTEGER CARDINA RECOULARECSAVAGLANKARCODE, ILATZATARETTRN, IRNEWA	NEWSYS2	
	1 CANNERS TEAP LATER STEER STE	OTWAYBO	- ;
,	UAIA BLANK/3H /	ARCARI	۲ و
، ب		NEWSTS 2	.
٠,	SORI UPDATE CARDS	NEED TO SE	er u
,		7616831	•
		NEWS TS 2	ء ه
		NEWSTS.	- :
		NEWSYS2	3 0 (
		NEWSYS2	•
		NE USYS2	2 :
	CALL SHKEY(2-1-1-0-FASCI16#1-40-1	NE MSYS2	= :
		NEWSYS2	21
,	CALL SHEND	NE ASTS	2 :
, ب		AMCAMA	2 :
, ر	INITIALIZE COLFO: RECERD AND READ INFO. CARD.	ATC 3 TAX	- :
		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9 9
•			
2			;
			7;
3			"
		THE STATE	ָרָ בָּי
3	METOLICIA : 400		, ,
			;
•	AND	A TO STA	9 ;
7		ALCORE	5
,	ITTEURIST VOOLIUS	CHENT	۹ ,
, ر	SURVEY CONTRACT OF SURVEY STATESTED SON ACCOUNT		2
, ر	CITCH TO RECEIVER CITAGE OF TRANSCILLER CITAGE	TAR CHA	? :
102		AMCSANI	: 2
		I NEV LEY	; ;
1.7		INTOM	; ;
:	TETTETT TO THE TO TO	INMUL	2
	. FO. 1813 GO	AMCSHNI	36
110	WRITE(6,2)CARUIN	AMCSHNI	37
~		AMCSMNI	36
	60 10 100	AMC SAN I	39
J		AMCSMAT	40
۰	CHECK FUR AUD UR OLLETE	AMCSHNI	7
		AMCSHA	45
120	IFITEST2 . E.J. LAA) GU TO 200	AMCSMNT	Ę

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

	IF(TEST2 .Nc.1RO) 60 TU 110	AMCSHNI	4.5	
, ن		AMCSHAI	9!	
ي ر	IMIS IS IME MECETVEM DELETE AMEA	ANCORNI	· •	
•	CALL RECFAUSCARDIN, ACCOUT, RECSAV, LIRAN, LIEST)	AMCSANT	0,	
	1F(17EST-2)130,140,150	AMCSHN	20	
13(130 IND-1	AMCSMA	76	
	CALL RECENTIONS CONTRACTOUS INDICATES OF THE CONTRACTOUS CONTRACTO	AMCORNI	25	
140	, ,	AMCSHNT	2.5	
-	4	AMCSHNI	55	
•	. و	ANCSHA	56	
951	D WRITELD DICARDIN	AMCSENT	ر و	
•		AMCSHAT	2	
J		AMCSMNI	9	
۰	THIS IS THE RECEIVER ADD AREA	AMCSMA	19	
		AMCORNI	29	
007	U CALL AELTAUICAKUINAKELUUIAKELUAKAIIKANAIIESIA Isaitestasiasia.	AMCARKI	ç 4	
216	. 3	ANCSHA		
1		AMCSMNT	99	
	-	AMCSHNI	29	
	٠	AMCSHNF	69	
022	٠.	E0CL6C	·	
-	FECODELLE, J. SECENTIA, SCOOL 17.	E 41.161	, ~	
•	FORMAT(A1.A4.A10.A3)	600160	n 🚁	
	J-111RAM-11/10+1		7.3	
	00 230 1-1,1	AMCSMNI	2	
	1+(1-1)+01-17	AMCSANT	2;	
	J2-11-4	ANCORNI	9 7	
) (ACTOCATION CONTRACTOR OF FEMALES AND CONTRACTOR OF FORMAL CONTRACTOR OF FEMALES AND CONTRACTOR O	EQC 1 6C		
230	ن .	ANCSHAT	. 62	
	-	AMCSHAI	90	
	00 211 1-1.IFRAN	AMCSMNT	1.0	
	-	AMCSHA	82	
231	. ں	ANCORAL	æ :	
212	- د	TAK CAA	F (F	
Š	CALL AFCICATION AND CONTRACTOR AND C	AMCSANI	. 0	
	CD 10 100	ANCSHIL	9.5	
ں		AMCSHNI	8 9	
۰	TRANSMITTER AREA - TEST FOR ADDICHANGE,OR DELETE	AMCSHNE	5 P	
		ANCORN	0	
300	O DECODE 15-13-CARDI-DARFIZATANEM CRVEM	EJCL6C	9 6	
	7 COOMATICAL 1421	F 001 AC	,,	
•	160.0	AMCSAN	* *	
	IF (1ES F2.E9.14A) [6.)=1	ANCSHNI	54	
	1F(1ES12.F0.1HC)16J=2	AMCSHAT	96	
	IF(TEST2.EJ.1MU)[63-3	AMCSHAI	60	
	IP(160.E4.0)60 IJ IIO	PHCSHA	e 6	
	TARTHER TOTAL TOTA	AUC 242		
			00	

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

312 CALL FANFAULT. 16 FURNATILIS AND CO. 0. 314 WRITE CO. 16 CO. 0. 315 WRITE CO. 16 CO. 0. 320 IFND - IFND FRE CO. 0. 320 IFND - IFND FRE CO. 0. 320 IFND - IFND FRE CO. 0. 322 IND - 0. 3232 IFND - 0. 324 IF (IFRALLICALI) CALL RECARTIRE CO. 0. 325 IFND - 0. 326 IND - 0. 326 IND - 0. 3370 IND - 0. 340 IND - 0.	CALL FAMENDICKEFTRN, RECOUT, IFNO, ITRAN) IF (IFNO, LT, O), G TO 315 IF (ITRAN, EO. O. AND. IGU. EQ. 1) GU TO 324 WRITE(o. 14) CARDIA FORMAT(1X, AA10, 10X, 13MXMTR NO MATCH) HND.O GO TO 232 IF (IGO-2) 324, 340, 320 IF (IGO-2) 324, 340, 320 IF (IGO-2) 324, 340, 320 IFNO, -1FNO IFNO, -1FNO GO TO 232 CALL RECART(RECSAV, ITRAN, RECOUT, IND) LND.3 CALL RECART(RECSAV, ITRAN, RECOUT, IND) LND.3 LND.4 LND	AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI	100 100 100 100 100 100 100 100 100 100
314 315 325 340 340	LETION IS DONE ENT)	ANC SAN I	7. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
315 315 325 326 326 327 3360	LETION IS DONE ENT)	ANC SAN I	74
326 326 33.5 340 350 350	LETION IS DONE ENT)	A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S A A C S	74
315 324 326 340 340	LETION IS DONE ENT)	ANCSAN I ANC	74
315 326 326 326 330 340	LETION IS DONE (NT.)	ANC SANI ANC SANI	00 00 00 00 00 00 00 00 00 00 00 00 00
315 324 324 340	LETION IS DONE ENT)	ANCSANI ANCSANI ANCSANI ANCSANI ANCSANI ANCSANI ANCSANI ANCSANI ANCSANI ANCSANI ANCSANI	74 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
320 324 340	LETION IS DONE ENT)	AMC SAN I	100 100 100 100 100 100 100 100 100 100
320 324 354 350	ENT)	ANC SAN I ANC SA	7. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.
320 324 354 350 340	ND 1.GT.15GD TU 322 1.11CARDIN UNIX DATA) X.4AALO.10X.12HMU XMIR DATA) 1.2 4KIIRECSAV.ITRAN.RECOUT.IND) 1.2 1.2 1.2 1.2 1.2 1.3036.J TO 322	ANCORNI ANCORNI ANCORNI ANCORNI ANCORNI ANCORNI ANCORNI ANCORNI ANCORNI ANCORNI	1112 122 123 1114 1125 1126 1127 1127 1127 1127 1127 1127 1127
326 327 340 340	ND ALICARDIN X, JAIDGU TU 322 ALICARDIN X, JAIDGU JUX, 12HNG XMTR DATA) ALICARDIN ALICARDINITRAN, TRAN, TRNEW, CRVNEW) ALICARDIN ALICARDIN X, SALO, 10X, 24430 XMTRS ALREADY PRESENT)	ANC STAND AND ST	111
325 324 340	-GT-11GO TO 322 11)CARDIN X+dA10+10X+12HMO XMTR DATA) 12 12 14 15 15 16 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	AMC SHN I	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
325 324 340 340	LIJCARDIM Krdalo, lok, 12HNO KMTR DATA) 12 JAFTIRECSAV, ITRAN, RECOUT, IND) 10.1(1.30)6.) TO 322 11.) CARDIN 12.1.) CARDIN 13.0. TO 322 11.) CARDIN 14. LOK, 24H30 KMTRS ALREADY PRESENT)	ANC SHALL	110 1110 1110 1110 1110 1110 1110 1110
32¢ 32¢ 15 15 340	K, JAIO, 10K, 12HMO KMTR DATA) 2 4FTTRECSAV, ITRAN, RECOUT, IND) 4DJTRECOUT, IFNO, ITRAN, TRNEW, CRVNEW) 12 1-11, 3016, 10 322 11) CARDIN 4, MAIO, 10K, 24H30 KMTRS ALREADY PRESENT)	ANCSANT ANCSANT ANCSANT ANCSANT ANCSANT ANCSANT ANCSANT	1114 122 123 123 123 123 123 123 123 123 123
325 324 15 340	AFTIRECSAVITRAN/RECOUT/IND) ADJIRECOUT/IFAD/ITRAN/TRNEW/CRVNEW) 12 1-11-3036J TO 322 1-20-2011/100-201	AMCSAN I AMCSAN I AMCSAN I AMCSAN I AMCSAN I AMCSAN I	1 1 2 2 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4
324 15 340	"AFTIRECSAV-ITRAN-RECOUT-IND) ADJIRECOUT-IFNO-ITRAN-TRNEW-CRVNEW) 12 -LT.3036J TO 322 1-)CARDIN K-NAIU-IOX-24H30 XHIRS ALREADY PRESENT)	AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI AMCSANI	120 121 123 124 125 125
32, 15, 15, 34,0	JAFTIRECSAVITRANFECDUT, IND) JADJÍRECDUT, IFNO, ITRANFTRNEV, CRVNEV) 12 12-1-1303-0-10-322 12-3-0-0-10-10-2-4-30 XHTRS ALREADY PRESENT)	AMCSMNT AMCSMNT AMCSMNT AMCSMNT AMCSMNT AMCSMNT	122 122 122 122 122 122 122 122 122 122
324	ADJIRECOUT, IFNO, ITRAN, TRNEN, CRUNEU) 12	AMC SWN I AMC SWN I AMC SWN I AMC SWN I AMC SWN I	122
324	12 1-11-3016J 10 322 1-5-5-4-30 XHIRS ALREADY PRESENT)	ANCSANT ANCSANT ANCSANT ANCSANT	123 125 126 127
324	12 1-11.30)6J TO 322 1-)Cardin .x.balu.lox.24H3O XHTRS ALREADY PRESENT)	AMCSHNI AMCSHNI AMCSHNI AMCSHNI	124 125 126 127
324	LT.3016J TO 322 1>)CARDIN .x.balu.lox.24H3O XMIRS ALREADY PRESENT)	AMCSHNI	125 126 127
340	15)CARDIN X,balu,lox,24H3O XHTRS ALREADY PRESENT)	AMCSHNI	126 127
340	KOBALUOLOK. 24H30 XMTRS ALREADY PRESENT)	AMCSHNI	127
340			l e
340		AMCSANI	120
340	2		130
340	THE RETA CHANGE AREA	AMCSMAI	131
340		AMCSHAI	132
CALL RECY RECOUTIL		ANCSHNI	133
RECOUTEL,	CALL RECWRTIKECSAV.ITRAN, RECOUT, IND)	AMCSHAT	134
	RECOUTIL, IFNO) = TRNEJ	ANCSHNE	135
RECOULTE	KECOULICS IFNUT CRUNEM	ANCORN	136
7=0XT		ANCOUNT	137
	21	ARCSHNI	961
100 CALL RELY	CALL RECENDICARDINAREGIGLARECDAY, LEAN, LEST	ANCORNI	75.
- 1631171		TANCAL) - + -1
	12001 - CELT - 12001 -	ANCORNI	771
OF C 105 (23	OF CODE (23-21-CARULNITABLE FRAP2	E001.60	. 00
21 FORMATCIO	FORMAT(104.A5.Ad)	E 20160	• •
	CSAVIL	NEWSYS2	14
TEMP4-RECSAV(2)	CSAV(2)	NE ASYS2	15
_	ENCODE 120,22, WECSAV) TEMP3, TEMP1, TEMP2, TEMP4	NE 45YS2	91
22 FORMATIAS	FORMATIASSASSASS	AMCSHAI	146
O		I NE SULVE	7.7
26.2 Dr. 000	ALD REALMS FILES	AMCORA	•
900	KEADAL - 2014 CAXULACTURAL - 30	AMCSHAT	150
	A10,A3)	AMCSHNT	151
	1F(EUF(11))02,501	FINANCS	~
901 WRITE (2,2	WRITE(2,20)(CARDIN(1),1=1,7)	ANCSHNI	153
	9	AMCSHAI	154
302 END FILE 2	~	ANC. SER.	155

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

	PRUGRAM AHC	HCSANI	73/75	1-140	FIR 4.8+498	80/07/26. 13.57.06	13.57.06	PAGE
		REELE	< e>			AMCSMNI	157	
		KENIK	40 5			AMCSMNT	15b	
	J	2100	UI CARDS			AMCSHNI	159	
175	•	JOS READ!	15.11CARE	7.7		AMCSMAT	160	
		15151	JF (5) 1995	01676		FINAMCS	£	
		910 WKITE	16.16164	ROIN		AMCSHNI	162	
		16 FORMA	11 (1 x, 84)	O. L. SHINPUT)		ANCSMNI	163	
		0,000	3 40¢			AMCSHNI	191	
180	•	999 STOP		9 STOP		ANCSHAI	165	
		END				AMCSHRI	991	

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

SUBRE	DUTINE	SUBRDUTINE RECURT	13/74 UPF+1	1.140		NT 4	FIN 4.8+498		80/07/26. 13.57.06	13.57.06	PAGE
-		igns ,	KOUTINE RE	CWKFIREC	SUBROUTINE RECURTIRECSAV. ITRAN. RECOUT. IND)	COUT, IND)			AMCSMN	167	
		THI:	S RUUFINE	PRINTS A	RECURD WITH	THIS ROUTINE PRINTS A RECORD WITH HEADING DETERMINED BY IND.	E0 BY 1	NO.	AMCSHN	9 7 9	
•) H O	DIMENSION HEAD(4), RECSAV(2)	10(4),REC	DIMENSION HEAD(4), RECSAV(2), RECOUT(2, 30)	1(2,30)			AMCSHAL	171	
		L CAL	UAIA HEAD/10HDELETED IFTIND.Eq.03G0 TO 100	DELETED 0 10 100	UAIA MEAD/10MDELETED , 10HADDEU IFFIND.EQ.03GO TO 100	,10HPREVIOUS ,10HCURRENI	• 1 OMC U	RRENT	/ ANCSHNI ANCSHNI	172	
01		1 FOR	#	0 (140) . R	ECSAV, ITKAN, RD/ 1X, A10, Ad	## TE (6, 1) HEAD([4U), RECSAV, TRAN, ((RECOUT([, 1), [-1, 2), J-1, [(RAN) format (1 HO, A10, 6HRECORD/ 1X, A10, A4, [2, [6A3/ (2 Lk, 16A3)) formation, 2),	.2), J=1	. I TRAN	AMCSHNI	175	
		Z FORMAT 100 RETURN END	FORMAT (1HO) RETORN						AMCSANI	177	

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

SUBRUUTINE TRNFA	TRNFAD	73/74	UPf=1	3 0	80/07/28. 13.57.06	13.57.06	PAGE
-	ă	URKJUTINE T	SUBROUTINE TRAFNOTREFTRM, K.COUT, IFNO, ITRAN)		AMCSHNI	140	
	<u>ټ</u>	HIS KOUTINE	SENDS IFND BACK EQUAL TO THE MATCHING XMIK I	INDEX,	AACSHAT	191	
	₹ ∪	ND SEIS TEN	O-O IF MU MATCH.		AMCSHNI		
	٥	DIMENSION RECOUL(2,30)	CUUT (2, 30)		ANCSHNI	_	
•	=	INTEGER REFIRMARECOUT	RN. RECOUT		NEWSYS2		
	ă	U 1 IFND-1.	LEAN		AMCSMNI		
	ī	FIRECOUFIL	IFIRECUUT(1, IFND).E4.REFTRNIGU TO 2		AMCSMNT	185	
	<u>ت</u> -	CONTINUE			AMCSHNE	_	
	ā	1FN0.0			AMCSHAI		
0	~	RE TURN			AMCSHNE	_	
	ī	r N D			AMCSMNF	189	

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

SUBRUUTINE MECPU	RECPUT	73/74	UP1-1	FIN 4.8+498	80/07/28. 13.57.06	13.57.06	PAGE
	<i>⊼</i> =	UBRUUTING RE	SUBRUCTING RECPUTIRECSAVITRAN) THIS SUBBUILLING JOITES ADMEN BECOMME TO THE MASTER DITPHT.	FE DUTPHT.	ANCORN	90	
, ,		IMENSION REC	DIMENSION RECUUITZ, 301, RECSAVIZ)		AMCSMNI	192 193	
•	- 3	NTEGER RECOR	INTEGER RECOUT, RECSAV, REC WRITE (2,1) RecSav, Ifran, ((RecOut(1,1),1=1,2), J=1,8)	(8)	NE ASYSZ AMCSMNT	14 194	
	. ¬	FURMAT(Alo.A9.12.16A3) If(ITRAN.LE.B)GO TO 99 1-(IIRAN-1)/A	FURMAT(A10.4%,12.16.43) IF(ITRAV.LE.U)GO TO 9999		AMCSANT	145 196 147	
10	\ \ \	DECOUE(5,2,4ECSAV)REC FORMAT(1X,44)	ECSAVIREC J		ANCSBN B EOCL 6C	150 10	
•) ¬ ¬ ¯	J1=846+1 J2=J1+7	V		ANCSANI	202	
3	E 00	F 15 2 3 3 8 6 C 4 (RECOUT FORMAT (LX, A4, 15 X, 16 A 3) CONTINUE	ITTIECE 3019-30 FORMAT(1X) A4,15X,16A3) CONTINUE		AMCSANI EQCL6C AMCSANI	204 11 206 207	
02	# 6666	RE LORN END			AMCSHNI	20 <i>1</i>	

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

ں ں ں	SUBKUUTING RECFNOTCARDIM, RECOUT, RECSAV, ITRAM, ITEST) THIS RUGITING READS THE MASTER INPUT AND WRITES TO THE MASTER DUTPUT UMILL A MATCH UM RECEIVER CLASS CODE IS EITHER FOUND OR FOUND NUT TO EXIST.	AMCSHNI AMCSHNI AMCSHNI AMCSHNI	209 210 211 211
ن ن ن	ITEST IS RETURNED AS FOLLOWS	AMCSANI	213
,	ITEST-2 - NO MATCH ITEST-3 - END OF FILE ON TAPE 1	AMCSHNI	216
، ن ن ر	THE COMFENTS OF THE RECORD TO BE CHANGED OR DELETED ARE RETURNED IN RECOUL, RECSAV, AND ITRAN.	AMCSHNI	219
٠	DIMENSION CARDINIBD.RECSAVIZD.RECINI7D.RECOUTIZD.30) INTEGER HECD.RECZ	AMCSANT	222
	INTEGER CARDIN, RECOUT, RECSAV, RECINDATA REC1, REC2/0, -1/	NEWSYSZ AMCSMNI	20
	IF(ITES).eq.3) GU TO 9999 DECUDE(6,1,CARUIN)REC1 FORMARIZX.it,	AMCSMNI EQCLOC FOCLOC	225
U U	WAS THE LAST ENTRY A MATCH	AMCSANT	229
J	IF(ITEST.NE.1)60 f0 100	AMCSMNT	230
u u	IS IT STILL LOOKING FOR THE SAME RECORD	AMCSMNT	232
J	IF(REC1, E3, REC2)60 TO 400	AMCSMNI	234
01	100 READ(1,2)RECIN	AMCSMNI	236
		FINANCS	~
=	102 DECUDE(5,5,RECIN)REC2 5 FORMAT(1x,14)	E0C16C	12
7	IF (REC2-REC1)110,120,130	AMCSMNI	241
		ANCSHIEL	242
7	120 ITEST-1 Decodetau, 3.recinirecsav, Itran, ((recoutil, j), I-1,2), J-1,8)	AMCSANI	243
	3 FORMATTALO, AS, [2, 16A3]	AMCSHNT	245
		AMCSANI	242
	00 124 1-1-3	AMCSHNI	248
	11 = 40 [+]	PRESENT	250
	15(12,61,30)12,30	AMCSHINE	251
		AMCSMNT	252
2	4 FUNNAL(201-10A3)	T T T T T T T T T T T T T T T T T T T	253
•		AMCSMA	255
=	130 1765/1-2	AMCSMAI	256
	GD 13 4992	AMCSANI	258
ں ر	THOUSE MICH SERVICES STATE STANFACTOR	ARCORA	259
ں ر		AMCSHAI	261
004			

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

<i>S</i> 1	SUBROUTINE RECFND	RECFND	13/14	UPT-1	FIN 4.8+498	80/07/28. 13.57.06	13.57.06	PAGE
		BACK	BACKSMACE 2			AMCSMAI	504	
		410 CONT	CONTINCE			AMCSANT	592	
3		READ	12.31RECS	READIZ: 3) RECSAV, ITKAN, ((RECOUT(1,K), I"1,2),K-1,8)	2	AMCSANI	266	
		11.01	IRAN.LE.8	IF(11RAN.LE.8)GU TO 425		AMCSMNT	267	
		1-6-6	-			AMCSHNI	268	
		5 00	00 420 [*I.J			AMCSANI	569	
		21-0	11=0+1+1			AMCSHN	276	
Ç		12.11.7	1 • 1			AMCSAN	27.1	
		161	1F (J2.6f.30) J2.30	12.30		AMCSANI	272	
		KEAD	(2.4)(INE	KEAD(2,4)((WECOUT(L,K),L=1,2),K=J1,J2)		ANCSMNT	273	
		420 CONTINUE	INUE			AMCSANT	274	
		7+7-7	-4			A.4C.SMN I	275	
2		425 00 4	00 430 1-1,5			ANCSHNI	276	
		BACK	SPACE 2			AMCSHAT	112	
		430 CONT	CONTINUE			AMCSMNT	27B	
		9	CO 10 9443			ANCSHAI	579	
			[+3			AMCSMNT	280	
15		9999 RETURN	Z Z			AMCSMNI	281	
		END				ANCSHAI	282	

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

SUBFOUTINE TRNADS						
		SUBRUCTINE TANADJIRECUUT, IPND, ITRAN, TRNEW, CRVNEW)	VNEW		ANCSMMT	283
•	۰					284
- '	، ن	THIS ADULINE ADDS ON DELETES A MATR SET AS IFND IS POS OR NEG, AND	FND IS POS OR NEG	AND	_	285
•	ى ر	THE VALUE OF LIKAN IS ADJUSTED TO MATCH.			AMCAMA	282
	,	DIMENSION AFLOMICS, 30%, TEMPLAS			AMCOUNT	288
		INTEGER RECOUT, TRAES, CRUNES, TENP			NE HSYS2	21
		IF(IFNU.LT.0).0 TO 400			AMCSMILL	598
	U				AMCSHNI	240
2	•	ADD ANEA			AMCSHN	241
_	u				AMCSHNE	292
		IFIIFNO.GT.0160 TO 5			ANCSHRI	293
		RECOULTED - FANEA			AMCSMNE	274
		RECOUTIZALD CRYNEN			AMCSMNI	562
15		1-x4x-1			AMCSHAI	546
					ANCSHNI	262
	•				AMCSMNT	848
	2				AMCSMNI	568
		ALCOULTS FND+1) = TANEM			ANCSHNT	300
2		RECOUT(2, 1FNU+1) = CRVNEW			AMCSHA	301
		[FN0= F.00+2			AMCSMNT	305
		LAZAAZA.			AMCSANT	303
		IFCIFNO.CT. ITANNED TO 444			AMCSME	304
		DO 100 I-IFND, ITRAN			ANCSHAI	302
5 2		00 50 Jele2			AMCSMNI	306
		1EMP(J+2)=KECOUT(J+1)			AMCSANT	307
		RECOUT(J.[)=[EMPLJ]			AMCSHAT	308
					AMCSHNI	306
	20				AMCSHRI	310
35	8	_			AMCSHNI	311
		575 O1 O9			ANCSHAI	312
-	J				AMCSHN	313
_	J	DELETE AREA			AMCSMIL	314
					AMCSHAI	315
35	00,				ANCOUNT	316
		T-ZZZ			AMCOMA	317
		20 200 1=1780 1=888			AUCSUN	D ;
		20100 000 000 000 000 000 000 000 000 00			ANCORE	616
						320
2	2				THE SHA	322
	3				AMCSMAT	323
	210				AMCSMAT	324
	666				AMCSMNE	325
4.5					AMCSMNI	326

TABLE XXXIX. AMCSMNT COMPUTER LISTING (CONT)

	PROGRAM CALLSMICLSMAY, INPUT, DOIPUT, TAPES-INPUT, TAPES-DUIPUT,	FINCSOM	
	1 TAPE2-CLSMRT)	FTRCSUM	~
	DIMENSION TITLE(4), 16(8),CRV.(4),KLASS(2)	CALLSM	. m
	INTEGER TITLE PRECY AVALL AVALLS SIGNA ENTRYN CRVE DOT BLANKS	04JAN77	~
	DATA (NPAGE1=0), INPAGE2=1), (MCDL0=0)	CALLSM	s
	DAIA (UGI-1H.)	CALLSM	٠
	DATA (BLANKS=10H)	CALLSM	~
	READIS-10) IITLE-KLASS	CALLSM	•
-	10 FORMATICALO)	CALLSM	۰
~	20 WRITE(6,25) IITLE,KLASS,NPAGEL,IITLE,KLASS,NPAGE2	CALLSM	11
7	25 FURMATI + 0+10x, 4alo, 9x, 2alo, 45x + Page + 15/ + 1 + 10x + 4alo, 9x, 2alo,	04APR80	-
	1 45X+PAGE+15/1	CALLSM	13
	NPACE BENPACE 2	CALLSM	1,4
	NPAGE2=NPAGE2+1	CALLSM	51
	WRITE(6, 30)	CALLSM	16
Ä	30 FORMATILTA, *** ECVR*, 4x, *** VALUE*, 3x, **SIGMA*, 3x, *********************************	04JAN77	•
	1 +1G/CURVE+/17X»+CLASS+»15X»+HA++2,3X»+1G/CRV+/17X»++	04JAN77	'n
	2 4X2 61-1-1-1-2 3X2 61-1-1-2 3X2 81-1-1-0 28X2 81-1-1-0/)	04JAN77	٠
	7 INC. 2	CALLSM	20
35	5 READIZ: 401RECV, AVALL, AVALZ, SIGNA, ISIG, ENTRYN, (IG'1), CRVE(I), I=1,8)		~
•	40 FURMAftixa4v2Xxa4vAlv3xx42vAlvA2v16A3)	39 1303	91
	16(10)(2))00,45	FINCSON	^
45	5 IFLAVALLEG.BLANKSJOOT-BLANKS	04.JAN77	•
	IFINCOLD.EJ.RECV) GO TO 48	CALLSM	92
	IFILIME+7.LT.60)6J TO 47	04JAN77	10
	WRITE (6, 25) TITLE, ALASS, NPAGEL, TITLE, KLASS, NPAGE2	04JAN77	11
	NPALE 1 = NPALE 2	04JAN77	12
	NPAGE 2 = NPAGE 2 + 1	04.3 AN 7.7	13
	WKI FE (6, 30)	04JAN77	14
	1. INE + 5	04 JAN 7 7	15
15	7 CONTINUE	04JAN77	16
	NR I [(6 , 4 6)	CALLSM	59
4	5 FURMAT(/)	CALLSM	30
	NC010+45CV	CALLSM	31
	LINE .LINE .Z	CALLSM	32
	IF(SIGMA.NE.LH .DR.ISIG.NE.1H)GO TO 48	04JUN75	e
	SIUMA=21 0	04JUN75	•
	1516-140	04JUN75	•
₽•	3	04JAN77	13
		04JAN77	9
•	50 FURHAT (17xoA4,5xoA4,2A1,4xoA2,2A1,5xoA2,8(3xo2A3))	E0C1 6C	11
	501-1:1	CALLSA	36
	LINE-LINE+1	CALLSM	37
		CALLSM	8
9		CALLSM	39
	- LC - C - L - L - L - L - L - L - L - L		

SECTION 13 - PROGRAM BMATUP 20

13.1 PURPOSE

Program BMATUP 20 adds new data records or makes changes to data records presently contained in the master B-matrix data file.

13.2 PRINCIPAL FUNCTIONS

Program BMATUP, shown in figure 49, uses as input the old master B-matrix data file, together with B-matrix update cards, and outputs an updated master B-matrix data file for use in program READDB 21 . The primary functions of program BMATUP are as follows:

- a. Inserts, in proper sequence, data contained in update cards for new B-matrix curves.
 - b. Deletes data records for old B-matrix curves.
 - c. Modifies data fields in existing B-matrix records.

13.3 INPUT/OUTPUT DESCRIPTION

Input to program BMATUP includes a program control card, update data cards, and the old master B-matrix data file. The data card input file must be sorted in ascending order on curve number (columns 68-70) and then on sequence number (columns 64-65). Output is the updated master B-matrix data file for input to program READDB 21 and a listing of the output file.

13.3.1 Input Format

The format of input data for program BMATUP is given in the following figures and table:

- a. Program control card, figure 50, page 13-4.
- b. B-matrix update data card 30, figure 51, page 13-5.
- c. Master B-matrix data file (31), table XL, page 13-8.

13.3.2 Output Format

The format of the updated master B-matrix data file output by program BMATUP is given in table XL.

13.4 PROCESS DESCRIPTION

a. Program BMATUP is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer and requires 100000_8 words of central memory for execution.

- b. The program control card is read, and then all B-matrix update data cards are read and stored in memory.
- c. A record is read from the master B-matrix data file and checked against the current update data card to determine the action to be taken. If the curve and/or sequence number are less than the update identifiers, the B-matrix data record is written to the updated file without change. If the curve and sequence numbers match for the two records, data for indicated fields are inserted in the record output to the updated file. If the curve numbers match and the update sequence number is zero, the record is deleted from the updated file. If the update curve number is less than the B-matrix curve number, all 21 records for a curve to be added are moved to a working array. Any initial or terminating B values less than -100 for this new curve are set to -100, and new estimates for corresponding delta B variables are determined. All 21 records for the new curve are written to the updated file.
- d. This process is repeated until all the updates have been completed and the updated master B-matrix data file is output.
- e. The updated master B-matrix data file is then read and a formatted listing is produced.

13.5 PROGRAM OPERATION

Figure 52, page 13-10, is a listing of all system and UPDATE cards necessary to execute BMATUP for a typical computer run.

13.6 LIMITATIONS

The number of B-matrix update cards must not exceed 649.

13.7 RUNNING TIME

Running time is estimated at 1 minute per 100 update records.

13.8 COMPUTER PROGRAM LISTING

A complete computer listing of program BMATUP is presented in table XLI, page 13-11, annotated to aid in understanding the program functioning.

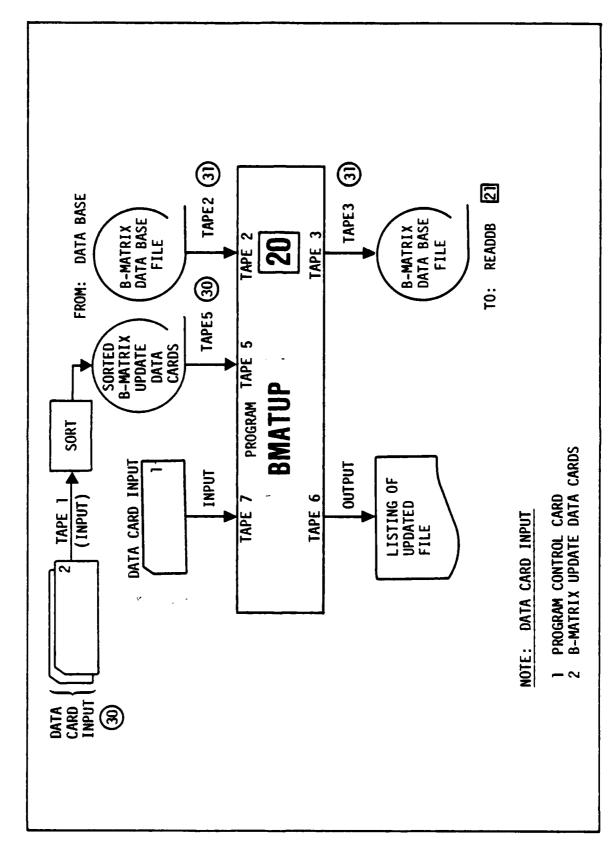


Figure 49. Program B-MATRIX UPDATE, functional block diagram.

FIELD DESCRIPTION	Title to be included in page headings.	Security classification of data to be included in page headings. Cannot be blank.
MNEMONIC	TITLE	KLASS
BCD FORMAT	3A10	A10
CARD COL	1-30	31-40
FIELD NO.	1	7

Figure 50. BMATUP input, program control card.

FIELD DESCRIPTION	Frequency interval in kHz.	B value in dB.	Delta B is defined as the difference between the 90 percent correct information transfer S/I and the 50-percent correct information transfer S/I. Delta B is used to estimate oB, the variance of the equivalent normal distribution used to approximate the true function.	Descriptive comments as to type of data, source, special application, etc.	Sequence number of cards within the curve set (range = 1 to 21).	Identification number for the curve set (range = 001 to 998).	Date curve data are added to master file.	
MNEMONIC	FREQ	BDB	ATB	COMNT	SEQ	CRVE	ID	
BCD FORMAT	A8	A6	A6	3A10,A7	12	13	А7	owing page)
CARD COL	1-8	9-14	17-22	26–62	64–65	68-70	74-80	(See notes on following page)
FIELD NO.	1	2	m	4	'	9	7	(See no

•

Figure 51. BMATUP input, B-matrix update data card (30) .

FIELD DESCRIPTION	
MNEMONIC	
BCD FORMAT	
CARD COL	
FIELD NO.	

NOTES:

- To delete an entire curve, enter curve number in columns 68-70 and 00 in columns 64-65. ij
- 2. To add a curve, fill in all fields for all 21 data cards.
- To change data in fields 1-4, enter curve number in columns 68-70, sequence number in columns 64-65, and new data in field(s) to be changed. .
- The update data cards are sorted in ascending order on curve number (columns 68-70), then sequence number (columns 64-65). 4.

Figure 51. BMATUP input, B-matrix update data card (30) (cont).

File Descri	ption: Master	B-Matrix Data File (3	31)		
File Name:	TAPE2/TAPE3	Lo	ogical	Unit:	2/3
Mode/Type:_	BCD	Record Length:	80	characte	ers
Origin:	Data base fil	e maintained by BMATUP	>		
Used By:	BMATUP 20;	READDB 21			

TABLE XL. MASTER B-MATRIX DATA FILE (31)

Data Description	Field Size	Field Position	Remarks
Frequency interval	∞	1-8	Frequency difference (in kHz) between this data point and the receiver center frequency.
B value	9	9-14	B value (in dB) for this data point.
	7	15–16	Blank
Delta B	ø	17-22	Delta B is defined as the difference between the 90 -percent correct information transfer S/I and the 50 -percent correct information transfer S/I . Delta B is used to estimate σ_B , the variance of the equivalent normal distribution used to approximate the true function.
	E.	23–25	Blank
Data comments	37	26-62	Descriptive comments as to type of data, source, special application, etc.
	-	63	Blank
Sequence number	7	965	Sequence number of cards within the curve set (range = 1 to 21).
	2	<i>1</i> 9–99	Blank
Curve identification	ю	68-70	Identification number for this B curve set (range = 001 to 998).
	m	71–73	Blank

TABLE XL. MASTER B-MATRIX DATA FILE (31) (CONT)

Data Description	Field Size	Field Position	Remarks
Data	7	74-80	Date curve data were added to master file.
NOTES:			
 There must be 21 da frequency interval. 	l data poir val.	nts for each	There must be 21 data points for each curve sorted in increasing order on frequency interval.
2. The end-of-data	record mus	st contain 9	The end-of-data record must contain 999 in columns 68-70.

TABLE XLI. BMATUP COMPUTER LISTING

	PROGRAM BMTAXLIAPE2, LAPE3, INPUT, DUTPUT, TAPE5, TAPE6. BUTPUT,	BMTXUP	~
,	TAPE7=INPUT)	BATXCP	ኆ.
، ر	OFFICE A OFFICE		.
. ر	INTOL CAROLS - ILLE AND CLASSITICATION	DA LAG	٠.
ی ر	TABES - DATA CHANGES DETERMINED BEING CONTEN	0 X 1 X 7	۰ د
ں ر		BMIXUP	. 20
ں .	IF ENTIRE CURVE IS TO BE DELETED DATA CARD SHOULD CONTAIN CURVE	BATXUP	•
ں ,	NEEDEL ALLE A SECUENCE NEEDEL OF SECUENCE SECUENCE SECUENCE SECUENCE OF SECUENCE SEC	BMIXUP	10
ں ,	ACCELL CONTAINS THE RECORD NO. OF RECORDS THAT MERE CHANGED IN	BMIXUP	: =
ں ر		BATXUP	7.
ں .	LIMITATION: NUMBER UPDATE CARDS < 650	BMTXUP	13
U		BHIXUP	7
J	OUTPUT: UPDATED B-MATRIX FILE SORTED BY CURVE NO., SEQUENCE NO.	BMIXUP	១
J	LISTING OF UPDATED 8-MATRIX FILE WITH UPDATED OR	BMIXUP	9
u		DX: NO	11
, ں	NUTE: FLAGS APPEAR ONLY IN PRINTED FILE - THEY ARE NOT	BATKUP	.
۰	INCLUDED IN TAPE-RESIDENT DATA FILE	SH T X C P	2
۰	TAPEZ BHATAIN FILE	BMIXOR	02
u	TAPES UPDATED BRAINING TILE	SOX - ES	7 2
	OTHENS TON FREU (650) - BUBI (650) - ATBI (650) - SEQ (650) - CRVE (650) -	BALXUP	22
	1 COMNICOSO.41.10(620).111LE(3).NCOM(4).NOUI(12)	190CT78	;
	DIMENSION LOC(650)	BHIXCP	5.2
	DIMENSION IFREG(21), IBOB(21), IAFB(21), ICOMNT(21,4), ISEG(21)	1900178	7
	DIMENSION ICRVE(21), 110(21), 1MOLD(21)	190CT78	m
	INTEGER FREG. BOB. ATB. SEG. CRVE. COMMI. TITLE, BLANKS. STARS	190CT 78	.
	DATA (NPAGE) -0) , (NPAGEZ-1) , (NULDC-0)	1900178	٠,
	≒	BRIXUP	,
		8712061	0 9
	NUCLIA CONTRACTOR OF THE CONTR		9 6
		20 7 1 1 0	2 5
		941404	2 2
	0.50 P. 1.000 P. 1.1.5 P. 1.5	OT LES	1 .
	ARA 19 1900 1 11 10 11 11 11 11 11 11 11 11 11 11		7 7
		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ָרָ הַ
٠	NEED OFFICE CARDS - SIONE IN ARRAI	20 %	÷ :
	00041-1 02 00	BALAUP	2 5
	KEAD(5,15) FREU(1), BDB(1), ATB(1), (CUNNICL), J-1, 4), SEQ(1),	BATAUP	3
		DX L RO	9
15	_	190CT 78	_
	1F (E0F(5))	CIFINS	
9		DUPCK	~ <
		ממירא	,
,		DUPCK	•
20		BMIXUP	.
		SAL KE	5
\$2	. x1-1-1	BHTXUP	4.5
		BMTXUP	4
ن		BMIXUP	-
90		BALXUP	.
32		1900178	\$
,	1F (c0F(2)) 105.36	CTFTNZ	~ ;
ں	MATCH IU UPDATE CARD	BMIXUP	21
36		BMIXUP	25
	10 11 11 11 11 11 11 11 11 11 11 11 11 1		,
	ILINCARCE GICAVE IIII ANDINAS CARSOLICA CONTRACTOR CONT	BAIXOF	3.3

TABLE XLI. BMATUP COMPUTER LISTING (CONT)

80/07/28. 13.58.09

FIN 4.8+498

13/74 OPf +1

PROGRAM BMERK

TABLE XLI. BMATUP COMPUTER LISTING (CONT)

PAGE

		AM I X 11P	71
U	CONTINUE READING BENEFIT FILE	BHIXUP	
•		BMIXUP	73
U	TEST FOR UPDATED FIELDS	BMIXUP	7.
75		BRIXUP	15
	IFIFREJII).EJ.BLANKS) GO TO BO	BMIXUP	16
		BATXUP	11
9	IF(BDS(I).EQ.BLANKS) GO (J 65	BATXUP C::	2 6
4	ACTOURTY TECATROLLY FO. BLANKS) GO FO GO	PAT ME	2
	3	ANTKUP	E
96	IF (CORNITION) & BLANKS) & 0 10 95	BATAUP	8
		BMIXUP	93
	NCOM(2) "COANT(1,2)	BMIXUP	8
	NCOM(3) *COMNT(1),3)	BMIXUP	65
	NCON(+)-COMNI(1,+)	BMCXUP	96
95	IF(ID(I).EG.BLANKS) GU TU 100	BMTXUP	H 7
	(1)01°01N	BATAUP	8
100	WRITE (3,32) N1,N2,N3,(NCOM(J),J=1,4),NSEO,NCRVE.NIO	BATXUP	7
	7+2-2	BMIXUP	9
		BALXUP	6
	11-11+1	BMIXUP	6
	£=017307	BHTXCP	
	00 10 30	BMTXUP	*
103		dox i wa	\$ 6
د	AUG ANT AUDITIONS REMAINING TO ENU OF TAPES	SETTO	9 9
9		1400178	200
		1906178	3 7
	901 01 09	1900178	79
	READ INTO 21 ARRAYS	19UCT 78	63
	111-1+20	1900178	40
	1-477	1900178	62
	00 115 JH+f+fff	190C178	99
	IFALO(JJH)=FREQ(JH)	190C178	67
	1808(114)•408(14)	190C178	68
		1900178	3
	\$ T = N : 0 0 0 0 0 0 0 0 0	1900178	2;
	CURRAL () JAN JURA () CON CON CON C	19001	7 ;
21		17001	2,
		1.00174	: :
	T-10(-7-10)	1900178	22
	1-20-20-41	1900178	2
115	CONTINUE	1900178	11
	UB 110 JH-1,21	190CT 78	36
	7.5.4 (HC) (HC) (HC) (HC) (HC) (HC) (HC) (HC)	1400178	5
116	CONTINUE	1900178	20 6
	DO II/ JHP167 FERTURALIAN 35 COMP. AND PHOLOGY CO 3000 THOLOGY LATREACH	1900178	T 1
	Interface of the form of the f	1 900 1 78	
	Fridostal, Little February	1900178	2 2
117	CONTINUE	190C178	9.
1	15AVE - [HULO(1)	1900128	90
	00 117 JH=1,21	1900178	9.7
	IF (IMULDIJM).NE. 104) GO TO 1185	1 GAL T 2 B	Í
			3

TABLE XLI. BMATUP COMPUTER LISTING (CONT)

	PROGRAM BRIRK 73/74 OPI-1	80/07/28. 13.58.09	13.58.09
	LLB WRITE(1, 32) IFREQLIH), IBOBEIH), IHOLD (JH), (ICOMNICIH, J), J-1, 41,	1900178	9
	1 15c o(J1), ICRVe (J1), 1 [D(J1)	1900178	16
		8/1004	26
2		17061	5
		4013061	, u
	011 03	1 2001	÷
		6617091	26
CMI		P 2 1 200 1	. 5
:	NI CONTINUE	1900178	3
		1400178	100
	120 REWIND 3	BMIXUP	106
	0.5	BRIXUP	107
185	O-Z	BAIXCP	108
	7.0	BAIXUP	109
	LINE-60	97 T KG	110
		SMT XUP	111
		BMIXUP	112
240	125 WRITE(6,126) TITLE, KLASS, MPAGEL, FITLE, KLASS, MPAGEZ	BATKE	113
	126 FORMATTOO 10 0 3 A 10 1 5 3 X 0 P A GE + 15 7 + 1 0 1 3 A 10 2 2 X 3 A 10 3	1 JAA Y 30	
	1 SSAPPAGE - 15/1	GN I X C P	115
	NPAGE 1 = NPAGE 2	BRIXCA	91
	MPAGE 2 · MPAGE 2 · 1	BAIXCP	117
145	WR I TE (6, 127)		110
	(3X+Oct 1A FC		119
	1 +SEG CURVE IDENIA)	BMIXOR	120
		10 X 1 X 10 Y	121
		BALXON	221
200		DX L WG	123
	CONT	200	136
	TO SE	200	227
		1000	971
300		B) 17061	101
(0)		ADX I KB	0 7 7
	INC KEALLS SC INCCLLISE LALCE		131
		2277	7 .
	017100717171717171717171717171717171717	911111	72.1
010			
2	98 - CARD - 117 - 127 - 127	97.74	
		9117	
	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	BRIXUP	051
	175 IF (NUCL (9), E9, NULDED 1909, 180	BMTXUP	141
515	_	BALKUP	142
		BMTXUP	143
	1211 (6.137)	BNIXUP	144
	LINE -LINE-2	BNIXUP	145
	O.Z	BMIXUP	146
223	190 1F (LINE.3E.60) GDIO 125	BMTAUP	147
	195 WRITE(6,135)(NOUT(1),1=1,11)	1900178	102
	NOUT(11)-BLANKS	937 KB	149
	LINE-LINE-1	en Txe	150
		BHIXCO	151
(7)	SOU REKIND 3	ST X C	152
	IF (KI-EL-0) 6010 310	BATKUP	153
	_	BATKOP	154
	100 100 100 100		122

TABLE XLI. BMATUP COMPUTER LISTING (CONT)

PROGRA	PROGRAM BNTRX	13/74	1=140	FIN 4.8+408	80/01/28.	80/07/28. 13.58.09
	41	: (Scatto.nt.	00 010 000		BMTXUP	156
230	±	1F (LINE.LT.60) GUTO 250	0 6010 250		GM I X U P	157
	3	(11E (6,126)	WALTE (6,126) IIILE "KLASSINPAGELITITLEIKLASSINPAGEZ	ILE, KLASS, NPAGE2	BMTXUP	158
	2	NPAGE 1 . NPAGE 2			BMIXUP	159
	Z	NPAGE 2 . NPAGE 2+1	-		BMIXUP	160
	3	WRITE 16,241)			BMTAUP	191
235	241 FU	HAMAI (20x1+C	FURMAT (20x, .CURVE NUMBER) DELETED FROM BRATREX FILE ./)	M BRAIRIX FILE+/)	BM T XUP	162
	7	L INE = 4			BAIXUP	163
	250 WR	250 WRITE (6,255) CHVE(1)	CNVE(1)		BMIXUP	164
	255 FO	255 FORMAT (8X,13)			BMTXUP	165
	7	LINE of INE . 1			BMT XUP	166
240	300 CD	300 CONTINUE			BMIXUP	167
	310 CD	310 CONTINUE			BATKUP BATKUP	168
	3	111E (6,126)	WRITE (6,126) TITLE,KLASS,NPAGEL		BMIXUP	169
	SI	STUP 310			DUPCK	^
	500 PR	INT SSO,CRVE	(1) · Sc 0 (1)		DUPCK	٠
545	550 FB	IRMAT (IHL) +D	550 FORMAT (1H1, DUPLICATE ENTRIES FOR CRVE +13+	E +13+ SEQ +12)	DUPCK	~
	SI	STOP 550			DUPCK	80
	1 000 FU	LUGO FURNATISALO)			SMIXUP	170
	E.	ENO			93XIX8	171

SECTION 14 - PROGRAM READDB 21

14.1 PURPOSE

Program READDB 21 assembles and outputs the required call summary file and master B-matrix file in proper format for use in LAUX 25 and RITERAN 27, respectively.

14.2 PRINCIPAL FUNCTIONS

- a. Program READDB, shown in figure 53, reads the B-matrix scoring data, checks to see that each set contains 21 data points, and verifies that the data are sorted in increasing order on the frequency interval field. If applicable, each curve is truncated to the minimum B-value input on the program control card. The valid B-matrix data are packed into 21 words and are written on the file BMATIX in binary records.
- b. The procedure for processing receiver call summary data is similar. Each set consists of one to four records, and the data are checked for invalid or missing entries. In addition, a check is made for each curve listed in the required call summary set being processed. If no curves are missing, a maximum and minimum frequency interval is determined to establish the upper and lower boundaries of the receiver frequency susceptibility window for narrowband and wideband interferers. The valid call summary data are written onto binary file AMATIX.
- c. If any type of error is encountered, READDB does not stop; rather, it attempts to find as many errors as possible and, at the end of processing, an error message is issued for each error detected.
- d. When it is desirable to set up wideband interferers for special handling, the program must be altered to include specific information to identify those equipments being processed as wideband interferers.

14.3 INPUT/OUTPUT DESCRIPTION

Input to program READDB includes a program control card, the master B-matrix data file, and the required call summary file. These two files reside on the same logical file unit for input to the program. Output consists of the call summary binary file and the packed B-matrix binary file.

14.3.1 Input Format

The format of input data is given in the following figure and tables:

- a. Program control card, figure 54, page 14-5.
- b. Master B-matrix data file (31), table XLII, page 14-8.

c. Required call summary file (28), table XLIII, page 14-12.

14.3.2 Output Format

The format of output data is given in the following tables:

- a. Packed B-matrix binary file (33), table XLIV, page 14-16.
- b. Call summary binary file 32, table XLV, page 14-18.

14.4 PROCESS DESCRIPTION

- a. Program READDB is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer. It requires 100000_8 words of central memory for compilation and execution.
 - b. The program control card is read to set up option switches.
- c. A set of B-matrix data consisting of 21 records is read and checked for detectable errors. If a lower limit for B values is indicated, all B values and corresponding frequency intervals (Δf) and delta B values are truncated appropriately. If no errors are found, the data are packed into a 21-word record, the assembled record is written on the output file, and the first and last frequency intervals (Δf) are stored in assigned arrays. This process is repeated until all B-matrix data curves are processed. Then a 9-pad is written on the output file and the file is printed.
- d. A set of receiver call summary data consisting of one to four records is read and checked for errors. Any B-curve required in the call summary is flagged if the curve is missing in the B-matrix output file. The maximum and minimum frequency interval (Δf) is determined to establish the upper and lower boundaries of the receiver frequency susceptibility window for narrowband and wideband interferers. If no errors are found, the assembled record is written on the output file. This process is repeated until all call summary data are processed.
- e. An error message is written that lists the curve numbers of any missing B-matrix data sets, or if the number of call summaries exceeds the maximum allowed in program LAUX [25].

14.5 PROGRAM OPERATION

Figure 55, page 14-20, is a listing of all system and UPDATE control cards necessary to execute READDB for a typical computer run.

14.6 LIMITATIONS

The number of B-matrix data curves is limited to 998, and the number of data points per curve must be 21. For one receiver call summary, the number of interferer classes may not exceed 30.

14.7 RUNNING TIME

Running time is estimated at 30 minutes for a standard run.

14.8 COMPUTER PROGRAM LISTING

Table XLVI, page 14-21, contains a complete computer listing for program READDB, annotated to aid in the understanding of the program functioning.

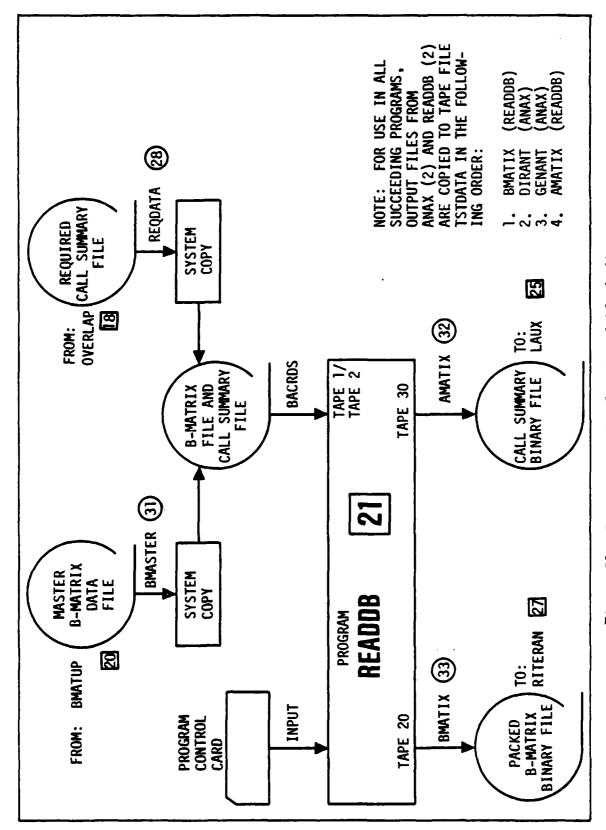


Figure 53. Program READDB, functional block diagram.

FIELD DESCRIPTION	Lower limit for B value on all curves. If no lower limit is imposed, this value is blank.	Switch indicating whether ultrawideband equipments are being processed. If yes, enter YES; otherwise, blank.
MNEMONIC	CULL	IWDBDSW
BCD FORMAT	110	А3
CARD COL	1-10	18-20
FIELD NO.	1	2

Figure 54. READDB input, program control card.

INTENTIONALLY BLANK

File Descr	iption: Master B-Matrix Data File (31)
File Name:	BACRDS Logical Unit: 2
Mode/Type:	BCD Record Length: 80 characters
Origin:	Data base file maintained by BMATUP
Used Bv:	BMATUP 20; READDB 21

TABLE XLII. MASTER B-MATRIX DATA FILE (31)

Data Description	Field Size	Field Position	Remarks
Frequency interval	∞	1-8	Frequency difference (in kHz) between this data point and the receiver center frequency.
B value	9	9-14	B value (in dB) for this data point.
	8	15-16	Blank
Delta B	9	17-22	Delta B is defined as the difference between the 90-percent correct information transfer S/I and the 50-percent correct information transfer S/I. Delta B is used to estimate \(\sigma\), the variance of the equivalent normal distribution used to approximate the true function.
	က	23–25	Blank
Data comments	37	26-62	Descriptive comments as to type of data, source, special application, etc.
	- 4	63	Blank
Sequence number	7	64-65	Sequence number of cards within the curve set (range $= 1$ to 21).
	2	<i>1</i> 9-99	Blank
Curve identification number	е	68–70	Identification number for this B curve set (range = 001 to 998).
	3	71-73	Blank

TABLE XLII. MASTER B-MATRIX DATA FILE (31) (CONT)

Field Field Size Position Remarks	7 74-80 Date curve data were added to master file.		21 data points for each curve sorted in increasing order srval.	The end-of-data record must contain 999 in columns 68-70.	
Data Description	Data	NOTES:	 There must be 21 da frequency interval. 	2. The end-of-date	

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File Descri	ption:_	Require	d Equipment	Call Summa	ary File (28)	
File Name:_	BACRDS	3		Lo	gical Unit: 1	
Mode/Type:_	BCD		Reco	rd Length:	68 characters	
Origin:	OVERLA	AP [18]				
Used By:	READDI	3 21				

TABLE XLIII. REQUIRED EQUIPMENT CALL SUMMARY FILE (28)

Data Description	Field Size	Field Position	Remarks
Receiver 1D code	5	1-5	The middle 4 digits of the 6-digit equipment class code, right-justified. The middle 4 digits uniquely identify the equipment type.
"A" value	80	6-13	Threshold value of Ŝ (in dBm), the desired RF signal level, for 50 percent probability of satisfactory operation in the absence of interference other than receiver noise. Expressed in hundredths of a dBm.
Variance of "A"	ហ	14-18	Variance parameter (in dB ²) of a Gaussian distribution function that is fitted to the function relating the probability of satisfactory operation to Ŝ, in the absence of interference other than receiver noise. Expressed to nearest tenth of a dB ² .
Number of expected interferer classes	5	19-20	The number of expected interferer classes for this receiver equipment class, presently limited to 30.
Interferer equipment class (1)	n	21-23	The 2nd, 3rd, and 4th digits of the 6-digit class code for one potential interferer equipment class for this receiver.
Scoring curve 10 (1)	8	24-26	The ID number of the "B" matrix scoring curve to be used for scoring interferer equipment class (1) and this receiver.
(See note on following	page)		

TABLE XLIII. REQUIRED EQUIPMENT CALL SUMMARY FILE (28) (CONT)

	Remarks	The last two data items (interferer equipment class and scoring curve ID) are repeated for up to 8 equipments per record ending in flead position 68. If there are more than 8 expected interferer classes, data are continued in the next record in the same format (field positions lized nethicial and interferer classes (9) starts in positions 21-23, etc.). This sprocedure is followed for a maximum of 30 interferer classes for each receiver ID code: The number of records for each receiver ID code is a function of the number of expected interferer classes (field positions 19-20). The maximum number of records is 4, with 8 interferer classes per record to the maximum of 30.
•	Field Posttion	equipment g in field nued in the rlass (9) sterferer class a function number o
•	Field Size	(Interferer econding are conting are conting interferer cum of 30 interferer in ID code in The maxim 30.
	Data Description	The last two data items up to 8 equipments per r interferer classes, data 1-20 are identical and is followed for a maximurecords for each receive (field positions 19-20). record to the maximum of

INTENTIONALLY BLANK

File Description:		Packed B-Matrix Binary File (33)						
File Name:	BMATIX			Logi	.cal	Unit:_	20	
Mode/Type:	Binary		Record	Length:	22	words		- <u> </u>
Origin:	READDB	21						
Used By:	RITERAN	N 27						

Note: The last record on the file contains ID=999 and Δf =99999999.

TABLE XLIV. PACKED B-MATRIX BINARY FILE (33)

	Remarks	A 3-digit identification number assigned to each B-matrix scoring curve.	A 3-digit identification number assigned to each B-matrix scoring curve.	The frequency difference (in kHz) between data point (1) and the center frequency of the receiver.	Threshold value of \$-Î (in dB), the RF S/I for 50-percent probability of satisfactory operation when \$ is sufficiently strong to make receiver noise negligible.	Delta B is defined as the difference between the 90 percent correct information transfer S/I and the 40 -percent correct information transfer S/I . Delta B is used to estimate σ_B^2 , the variance of the equivalent normal distribution used to approximate the true function.	All data are packed in integer (I) format. In each word, the left-most bit is bit 60, the right-most is bit 1. For the maximum value, the character · indicates the location of the decimal point, where applicable, when the data are unpacked and converted to the proper units. Word 2 is repeated for each of the required 21 data points, making a total of 22 words in the binary record for one scoring curve. The 21 data points must be sorted in
Format Word	Position	1 A 3-	2 A 3-	The data of t	Thre S/I isfa cten negl	Delta B i between t tion tran correct i ta B is u ance of t bution us function.	t. In each word walue, the charthe data a when the data a red 21 data pointe.
	To Print	13	020				er (I) forma or the maximu applicable, of the requi
יייי אינייי אינייי	Bits	1	97-09	45-25	24-13	12-1	ed in integer (I) format. In each we bit 1. For the maximum value, the int, where applicable, when the data dor each of the required 21 data point for one scoring curve. The 21 d
Data Description and	Maximum Value	Scoring curve ID number (001-998 ₁₀)	Scoring curve ID number (1) $(001-998_{10})$	Frequency interval f (1) (±1048575.10)	"B" value (1) (±2047 ₁₀)	Delta B (1) (4095 ₁₀) NOTES:	1. All data are pack the right-most is of the decimal po the proper units. 2. Word 2 is repeate in the binary rec

File Descri	ption:_	Call	Summary	Binary	File	(32)				
File Name:	AMATIX					Logic	al	Unit:	30	
Mode/Type:_	Binary			Record	Leng	th:	38	words	maximum	
Origin:	READDB	21								
Used By:	LAUX (25								

TABLE XLV. CALL SUMMARY BINARY FILE (32)

Data Description	Format To Print	Word Position	Remarks
Receiver ID code	15	-	The middle 3 digits of the 5-digit equipment class code, right-justified. The middle 3 digits uniquely identify the equipment type.
⋖	F9.2	8	Threshold value of S (in dBm), the desired RF signal level, for 50 percent probability of satisfactory operation in the absence of interference other than receiver noise. Expressed in hundredths of a dB.
Sigma A	F6.1	m	Variance parameter (in dB^2) of a Gaussian distribution function that is fitted to the function relating the probability of satisfactory operation to \hat{S} , in the absence of interference other than receiver noise. Expressed to nearest tenth of a dB^2 .
Minimum Δf for narrowband interferers	18	4	Frequency interval to establish the lower boundary of the narrowband frequency susceptibility window for this receiver. Set to 1 if not applicable.
Maximum ∆f for narrowband interferers	18	\$	Frequency interval to establish the upper boundary of the narrowband frequency susceptibility window for this receiver. Set to -1 if not applicable.

TABLE XLV. CALL SUMMARY BINARY FILE (32) (CONT)

on Remarks	Frequency interval to establish the lower boundary of the wideband frequency susceptibility window for this receiver. Set to 1 if not applicable.	Frequency interval to establish the upper boundary of the wideband frequency susceptibility window for this receiver. Set to -1 if not applicable.	The number of expected interferer classes for this receiver equipment class, presently limited to 30.	The middle 3 digits of one potential interferer equipment class code followed by the 3-digit ID number of the "B" matrix scoring curve to be used for scoring interferer equipment class (1) and this receiver. The data are packed as a 6-digit integer and must be unpacked to be used.	for each of the expected interferer equipment classes to a maximum of 30.
Word Position	9	2	∞	6	the expe
Format To Print	18	18	12	91	or each of
Data Description	Minimum Af for wideband Interferers	Maximum Af for wideband interferers	Number of expected inter- ferer classes	Interferer equipment class (1) data	NOTE: Word 9 is repeated f

Figure 55. READDB/ANAX control card listing.

TABLE XLVI. READDB COMPUTER LISTING

PAGE

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TABLE XLVI. READDB COMPUTER LISTING (CONT)

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TABLE XLVI. READDB COMPUTER LISTING (CONT)

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3960 CONTINUE SAVE FRED RANGE VALUES AND GO READ NEXT RECURD OUMAY73 WPITE(20) DULL), IPACK 337 CUNINUE ILUGII-YELF(1) ILUGII-YELF(1) 190 CONTINUE ILUGII-YELF(2) 400 READIS-11HILE 500 READIS-11HILE 500 READIS-11HILE 510 CT 73 520 FUNATION 530 READIS 530 CAPITE DUMMY RECURD DI BOMAY PECURD DI BOMAY79 OUMAY779 OUMAY779		2 (SHIFT(B(J), 12). AND. SHIFT(MASK(12), 24)). OR. DELTAI(J)	BFMAI	53
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SAVE FREST RANCE VALUES AND GD READ NEXT RECURD OBHAY73 WHITE(20) ID(11) : IPACK 110 (11) **YELF(21) 50	۰ ن		OGMAY7.	23
######################################	.	VALUES AND GO READ NEXT	OBMAY 7.3	* ;
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			ANATOR	7
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400 KEADIZ-LIMITE FEEDER 1907-13 1520773 1520773 1520773 1520773 1520773 1520772 1520772 1520773 152077			READDS	90
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STOREM TO SERVICE ACTIONS ACTI			CZFINZ	5 - 9
420 FURNALITY G-MAIKIR Y-FAU IS UUI UF IKUEK.**///) 430 ALAD(2.1) 41NE CZFINZ IFIEUF(2.)! 500.430 AAITE DUMNY RECUKU UN END UF B-MATRIX UUTPUI FILE OUMAY79 OGMAY79		024 IN 450	ME AUDIS	603
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AAITE DUMNY RECORD DY END OF B-MATRIX DUTPUT FILE DUMNY79 DAMAY79	Ų		OHMAY 79	2 5
UBMAY79		ARILE DUMNY RECORD OF B-MATRIX DUTPUL FILE	UNMAY 79	31
	U		UBMAY 79	36

TABLE XLVI. READDB COMPUTER LISTING (CONT)

	PAUSKAM ALADOB 13/74 UPF-1	30/07/29.	10.40.40
	0-7-7-4-11-11-11-11-11-11-11-11-11-11-11-11-1	1500173	64 07
	IPACKJ SHIFF F (10(1) 1,451. JR. SHIFT (MELF (1), 24)		26
175	00 510 J-1.21	BNATPK	Ţ
		DEMA!	33
	ACTION CONTINUES OF THE PROPERTY OF THE PROPER	BRAFFR	۽ ه
		1500 [73	2
140	REMIND 20	1500173	2.
	1F(CULL.LE100.0x.CULL.E3.0)60 fg 550	3F MAI	35
			39
	C IF CUAVES WERE TRUNCATED, READ AND PRINT DUTPUT FILE		0,
			;
185		OSMAY 79	25
	(05°20° ((07) 813× 10°	CZFINZ	3 1
	431 00 4010 7=1+21	SHALPK	•
	10(1)= SHIFT([PACK(1),15).AND. SHIFT(NASK(15),15)	BHATPK	01
7.7	MELF(J) - S41FT(1PACK(J), 36), AND, SHIFT(MASK(21), 21)		= :
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	T SASK (44)	BFMAT	4.1
	4010 CONTINUE	BHATPK	25
		45.5	75
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		1500173	90
		RE ADDB	6.9
		DUNAYTA	43
502	C READ CALL SUMMARY DAFA RECURD	OBKAY 79	**
		PLANEO	4.5
		1500173	7
	4 FUMM (1530144	: :
210		20142)	7 ~
)	;	REAUDIS	77
	C SAIP ANY GLANA CARDS ALAD AS FIRST OF A SET.	RE ADUB	9.2
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	C READ ADDITIONAL RECORDS FOR THIS CALL SUMMARY SET	DEI OSHAY79	~ # • • •
	42 cd 000000 10 0000 42 y		2 4
225	75-71-6	1500173	9 9
;	[45]-[45]+1	1500173	19
	READILISTINATION (KING(J) HAR(J) J.JL. J2)	1500173	99
	P+17=17	1500173	6.6

TABLE XLVI. READDB COMPUTER LISTING (CONT)

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1115		# 400m	• •
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		REAUDA	103
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	004 01 77	KEA008	105
580	=	1500173	0.5
	IF (N.GE.L.A	1500173	7
	40*N840+1	READOB	107
	000	R. AUDB	103
0, 6		RE ADDR	100
•		1510144	18
u		OBMAY 79	25
ں ،		OUMAYT	53
J	STATEMENTS AND INSERT CODING 1	JOHAY 79	54
ر؛		62 A WHRO	55
u		08MAY 79	26
	(n)141x=#	1530144	10
	1661+4/10	1510144	20
	IF (IGCL. Ed. 2) GO TO 542	15JUL 4A	21
	IF(MOD(16CL,10), 4c.));0 10 541	15JUL4A	22
	IF(M.NE.131.AND.M.ME.192.AND.(M.L1.291.0R.M.G1.295))GO TO 591	1530144	23
U		UBMAY 79	57
ر	SAVE DATA VALUES FOR RCVR WIDEBAND FREG WINDOW	CAMAN 19	58
U		OBMAY77	99
2+5		15JUL 4A	5.4
	IF(L1(N).GF.IMAX4)[MAX4-IMI(N)	15JUL4A	52
•	60 10 600	1530144	97
۰		OHWAY 79	9
, ن	SAVE DATA VALUES FOR RCVR NARAGUBAND FREG WINDOW	OGHAY 79	7
		DRAKA S	29
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TABLE XLVI. READDB COMPUTER LISTING (COMT)

,	PRUGRAM REALUB	77767 80.	UPI*1	80/01/29. 10.40.40	10.40.40
	ں			E / YAMBO	67
	J		IF RECORD HAS ERRORS, PRINT MESSAGES, GO TO NEXT	OBMAY 74	. Đ
	، ب		RECURO	OHMAY 79	5 9
2 30	٠	N. KK. N. E. K. O. N.		OBMAY	0 4
	620		PRINT 030.NINE.L. 441SS.48TRA.48AD		117
	9	FURMATE . 0 14D	FURMAICODAD DAFA FOR RCVA CLASSO.IG. C 13.0. 0.13.0 MISSING	-	÷
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:	,	CC 01 05		READOU	120
542	، و			DHMAY 79	.
	ي و.		WALTE BINARY RECORD FOR ERRUR-FREE DATA	OBMAY74	72
		70 to 1 to 2		COMMAT	.
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			CARREST CONSERVATION OF THE PROPERTY OF THE PR		r 4
		GU 10 550			122
	J			0444	**
102	ں ،		CHECK TO SEE IF ANY REQUIRED B-MATRIX CURVES ARE	SENAY 7.5	: 2
	U		ALSSING. IF YES. PAINT RESSAGE.	OHMAY 79	20
	U			OUMAY 7.	11
	\$.	564.1.6 017 06	Pi	READOR	130
		IF (ISAVE (J)	IF(ISAVE(J), NE. 5) GU TU 710	READOR	131
317		NF KK - NE KR + 1		READD8	132
		PRINT 5.J		READOR	133
	•		FUMMALLOUD SCURING DATA FOR+,1101	RE AUDU	134
	212			RE ADDO	135
		ENDFILE 30		READOB	136
315		NE 41.40 30		REAUDA	137
	J			OBHAY 7.9	2
	.		PRINT NESSAGE TO CHECK CALL SUMMARY SIZE IN LAUX	DANAY 79	6 2
	ی		•	OUNAYA	00
,,,	95.0	PRING 330-ICUONI			o - 1
363	200	B30 FURRALIE-F. ILU.	.c.* AXAIRIX CALL SUMMARIES. MAXINUM ALLONED IN LAUX	_	2
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	، د			OHMAY 7-5	Ŧ
	، ب		PAINT APPROPRIATE TERMINATION MESSAGE AND END	6 A A WPO	9.5
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362		IFTNERK.EJ.OJGU TU 610	פֿמ נמ פֿוֹס	READO8	136
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			SIDE 57	2140140	<u>.</u> -
	910			0.05.14.0	- 4
330	100		FORMATION AND ANDMALLES DEFECTED BY READDAND	COFINS	2 2
				RE AUUB	140

SECTION 15 - PROGRAM EQCLSFF [22]

15.1 PURPOSE

Program EQCLSFF 22 inserts coded identifiers into the records of the edited deployment data file, as required by programs LINK 23 and LAUX 25. These identifiers are needed to select and analyze samples from the population of links generated by program LINK.

15.2 PRINCIPAL FUNCTIONS

Program EQCLSFF, shown in figure 56, accepts as input the edited deployment data file and the required equipment class file. The principal functions of program EQCLSFF are as follows:

- a. Assigns the last five digits of the 6-digit equipment class code for each equipment. The master set of codes for each equipment category is read from the required equipment class file.
- b. Assigns a 2-digit frequency band code to each equipment by using data in a program DATA statement.
- c. Alters the siting preference code for all airborne equipments except satellites (siting preference = 0) to 3 for airborne radar, to 8 for airborne equipments within 25 meters of the earth, or to 6 for all other airborne equipments.
- d. Assembles tallies of the number of receiver and transmitter records found for each of the respective equipment combinations, and prints out a tabulation of results at the end of the program.
- e. Identifies nets that have no transmitters deployed, drops all records for such nets, and prints out a count of records dropped.
- f. Prints out a summary line for each net type encountered; includes an image of each equipment class code assigned within nets of that type.
- g. Monitors the categories of equipment class codes assigned, and prints out a warning message when any given net has an unsuitable mixture of these categories.
- h. Produces as output an edited deployment file with identifiers in a format suitable for input to programs LINK [23] and LAUX [25].

15.3 INPUT/OUTPUT DESCRIPTION

Input to program EQCLSFF consists of a program control card, the edited deployment data file, and the required equipment class file. Output consists of the deployment data file with identifiers, a remarks and error list, and output messages.

15.3.1 Input Format

The format of input data to program EQCLSFF is given in the following figure and tables:

- a. Program control card, figure 57, page 15-5.
- b. Required equipment class file (25), table XLVII, page 15-8.
- c. Edited deployment data file (10), table XLVIII, page 15-12.

15.3.2 Output Format

The format of output from program EQCLSFF is the deployment data file with identifiers (34), shown in table XLIX, page 15-18.

15.4 PROCESS DESCRIPTION

- a. Program EQCLSFF is written in FORTRAN EXTENDED for processing on the CDC CYBER 172 computer. It requires 60000_8 words of central memory for execution.
- b. The program reads in a program control card, the required equipment class file is then read, and the data are stored.
- c. After reading in and storing the equipment class code data, the program begins reading in the edited deployment data file, which is arranged in ascending order by net number.
- d. Each record is then examined by comparing the equipment identifiers (component and major equipment codes, modulation code, and number of channels used) with information in the equipment class code data file. When a match is found, the 5-digit code assigned to that combination (and input as part of the equipment class code data) is inserted into the last five digits of the 6-digit equipment class code for the deployment record. If a match cannot be found, identification of the record is written on the error listing, an error count is incremented, and the next record is read.
- e. An audit-trail record is kept for each net type. All 5-digit codes associated with a type are listed, and entries are flagged if more than two codes are used for a type.
- f. A frequency band code is assigned to each equipment by using data in a program DATA statement.
- g. The siting code (sixth digit of the equipment class code) is altered for all airborne equipments except satellites.

h. The program deletes data from the deployment record that are no longer necessary for processing.

15.5 PROGRAM OPERATION

Figure 58, page 15-24, is a listing of all system and UPDATE cards necessary to execute EQCLSFF for a typical computer run.

15.6 LIMITATIONS

- a. The number of different modulation/equipment/number of channels combinations that can be accommodated is 1,000.
- b. The audit-trail provides for a listing of up to 10 different 5-digit equipment class codes for each net type. If more than 10 should be encountered for a net type, the list will be output each time more than 10 codes have been encountered, and the cells will be set to blanks.
- c. Upper limit values for nine frequency bands are included in a DATA statement. These may be changed to suit the requirements for a particular task.

15.7 RUNNING TIME

Running time is estimated at 1 minute of central processor time per 2,000 input records.

15.8 COMPUTER PROGRAM LISTING

Table L, page 15-25, contains a complete program listing for EQCLSFF and subroutine PRTPG, annotated to aid in the understanding of the program functioning.

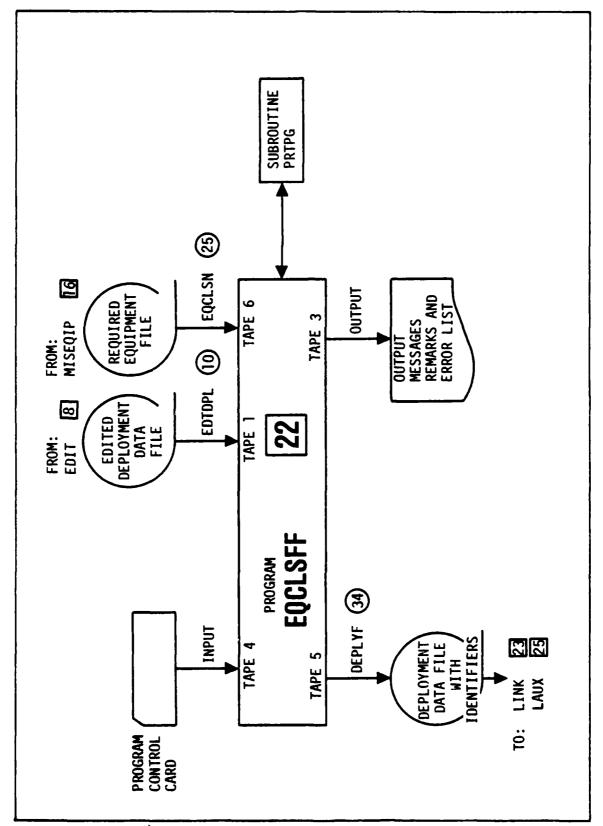


Figure 56. Program EQCLSFF, functional block diagram.

FIELD NO.	CARD COL	BCD FORMAT	MNEMONIC	FIELD DESCRIPTION
1	1-10	A10	IDDATA	This field must contain EQCLSFFbbb.
2	11-40	3A10	TITLE	Title to be included in page headings.
æ	41-60	2A10	ICLASS	Security classification to be included in page headings. This field must not be blank.
4	74-75	12	NFILES	The number of files of edited deployment data to be read.

Figure 57. EQCLSFF input, program control card.

INTENTIONALLY BLANK

File Descri	ption: Re	quired	Equipment File (25)	
File Name:	EQCLSN		Logical Unit: 6	
- Mode/Type	BCD	· <u>-</u>	Record Length: 81 characters	_
Origin:		16		
Used By:	OVERLAP	18 ;	EQCLSFF [22]	_

TABLE XLVII. REQUIRED EQUIPMENT FILE (25)

Data Description	Field Size	Field Position	Remarks
	-	-	Blank
Component code	m	2-4	A 3-character alphanumeric code assigned to this equipment component.
Major equipment code	2	9-6	A 2-character alphanumeric code assigned to this major equipment class.
Modulation code	8	7-8	A 2-digit code indicating modulation type: $33 = F3$, $13 = A3$, $14 = A3A$ or $A3J$, $31 = F1$, $36 = F9$, $50 = P0$, $58 = P9$, $18 = A2$, $12 = A9$, $11 = A1$. Other codes for specific types may be used occasionally.
Number of channels	e	9-11	The number of channels assigned for this equipment component, if applicable. If subfield 9 > 5, the equipment is encrypted.
Component nomenclature	15	12-26	Name of the component associated with this component code.
Major equipment nomenclature	15	27-41	Name of the major equipment associated with this major equipment code.
Low tuning range limit	∞	42-49	Lowest frequency (in kHz) to which this equipment will tune.
High tuning range limit	&	50-57	Highest frequency (in kHz) to which this equipment will tune.
	1	58	Blank

TABLE XLVII. REQUIRED EQUIPMENT FILE (25) (CONT)

Data Description	Field Size	Field Position	Remarks
Use code	-	59	A 1-character alphabetic code indicating the use type of equipment: B = broadcast/tele-
			<pre>vision, C = communications, D = direction finding, E = fixed frequency emergency guard- band, I = intercept/ESM, J = jammer/ESM, M = sensors, N = navigation aids, 0 = orderwire.</pre>
			<pre>Q = miscellaneous special purp se, S = detect- ing/range bearing (radar), V = sensor data link, X = IFF, Y = security monitoring (COMSEC, etc.), Z = special electronic warfare (EW). Other codes are assigned as needed.</pre>
	1	09	Blank
Force code		61	A 1-character alphabetic code indicating force type: B = BLUE (friendly), R = RED (enemy).
	ı	62	Blank
XY code	7	63-64	A 2-character alphabetic code indicating equipment type: XX = transmitter only, XY = transceiver, YY = receiver only.
	-	9	Blank
New equipment class	6	66-74	Expanded equipment class for future development.
	-	75	Blank

TABLE XLVII. REQUIRED EQUIPMENT FILE (25) (CONT)

Data Description	Field Size	Field Position	Remarks
Equipment class code (last 5 of 6 digits)	s	76-80	A 5-digit code assigned to indicate the equipment class when the data set code is attached as the first of a total of 6 digits. The final 5 digits are assigned as follows:
ς.			Subfield 76. Modulation code: 1 = F3 = 33, 2 = A3 = 13, 3 = A3A or A3J = 14, 4 = F1 = 31, 5 = F9 = 36, 6 = P0 = 50, 7 = P9 = 58, 8 = A2 or A9 = 18 or 12, 9 = A1 = 11, 0 = special or other.
			Subfield 77. Bandwidth: For modulation codes 1-5 and 8, 9, 0: 1 = narrow, 2 = medium, 3 = wide, 4 = very wide; for modulation codes 6 and 7: 5-9 and 0 indicate different "B" matrices.
			Subfield 78-79. Sequence number: 00-99 = final specific equipment designator within modulation code and bandwidth.
			Subfield 80: Siting preference: 1 = normal, 2 = normal, 3 = airborne radar, 4 = ground radar, 5 = preferred, 6 = airborne nonradar, 7 = radio relay (LOS), 8 = nap of the earth, 9 = troposcatter, 0 = satellite.
	1	81	A 1-character alpha code to flag equipments for special handling. Slash (/) = delete equipment from analysis, asterisk (*) = process for interferers only; otherwise, blank.

File Descri	ption:	Edite	d Deploy	nent Dat	a File (10)
File Name:_	EDTDP	L			Lo	gical Unit: 1
Mode/Type:_	BCD			Record	Length:	84 characters (2 records
Origin:	EDIT	8				for each equipment)
Used By:	ANAM	. e	EQCLSFF	22		

TABLE XLVIII. EDITED DEPLOYMENT DATA FILE (10)

Data Description	Field Size	Field Posttion	Remarks
Record 1			
Security classification	1	-	<pre>0 = unclassified, l = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Net number	10	2-11	A unique 10-digit code assigned to each net. Digits 1-6 indicate the net type numbe: and 7-10 indicate the troop number of the net control station (NCS).
Net sequence number	က	12–14	A 3-digit sequence number of equipments in the net as assigned by the supplier.
Frequency	80	15-22	Assigned frequency in kHz, right-justified.
Net type code	9	23–28	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
Data set code	 4	29	<pre>1 = friendly corps C-E, 2 = friendly TACAIR C-E, 3 = theater army, 4 = friendly EW, 5 = opposing forces C-E, 6 = opposing forces EW, 7 = test system items, 8 = TACAIR EW (unintentional), 9 = intentional interference (friendly army or opposing forces EW), 0 = intentional interference (TACAIR EW).</pre>

TABLE XLVIII. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Remarks	A 4-digit net sequence ID number assigned in CONVERT [1] to identify each equipment in the deployment: 0001-1999 for transmitters, 2000-7999 for transceivers, and 8000-9999 for receivers	Latitude in ten-thousandths of a degree, right-justified. Referenced to new origin input to EDIT 8 to insure that all equipments are in the first (northeast) quadrant.	Longitude in ten-thousandths of a degree, right-justified. Referenced to new origin input to EDIT 8 to insure that all equipments are in the first (northeast) quadrant.	Subfield 47-50: Height (in meters) of aircraft above ground. All zeros if aircraft is on the ground. Blank if not aircraft. Subfield 51: Multiplier N, used to multiply aircraft height by 10^N ; N = 0, 1, 2, 3,	A 3-digit code assigned to each antenna type.	A 1-character alphabetic code to indicate type of polarization. H = horizontal, V = vertical, A = +450, D = -450, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.
Field Position	30-33	34-39	97-07	47-51	52-54	25
Field	7	9	7	S	.	-
Data Description	Net sequence ID number	Latitude	Longitude	Aircraft height	Antenna code	Antenna polarization

TABLE XLVIII. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Position	Remarks
Antenna azimuth angle	•	56-61	Subfield 56-58: Lower limit of scan. Subfield 59-61: Upper limit of scan. Expressed in degrees clockwise from true north, not greater than 360°. For stationary antennas, both are equal. Blank for omnidirectional antennas.
Antenna elevation angle	9	62-67	Subfield 62-64: Lower limit of scan. Subfield 65-67: Upper limit of scan. Expressed in degrees upward from horizontal $(0^0-90^0$ and 270^0-360^0). Blank for omnidirectional antennas.
Antenna structural height	æ	02-89	Height of antenna in tenths of a meter.
Power output	5	71-75	Power transmitted in dBm, right-justified.
Area code	Ħ	92	A 1-character alphabetic code assigned to designated deployment areas.
	2	77-78	Blank
Number of channels	က	79-81	The number of channels assigned for this equipment component. Blank if single-channel. During EDIT [8], subfield 79 is changed to 5 or greater if the net is encrypted.
Component code	e	82-84	A 3-character alphanumeric code assigned to this equipment component.
Record 2			
Major equipment code	2	1-2	A 2-character alphanumeric code assigned to this

TABLE XLVIII. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Position	Remarks
Major equipment code (cont)			major equipment class.
Modulation code	8	3-4	A 2-digit code indicating modulation type. 33 = F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = F9, 50 = P0, 58 = P9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.
R/T code	-	١	A 1-character alphabetic code: R = receiver, T = transceiver, X = transmitter.
Posture code	ri .	•	A 1-character alphabetic code indicating the combat posture of the unit to which the operator is assigned. N = normal, H = heavy, L = light, R = reserve, P = priority, K = nuclear, \$, T, and W = special assignments.
Operator name	14	7-20	Standard name assigned to the operator, left-justified.
Operator troop number	4	21-24	A 4-digit number indicating the unit to which the operator is assigned.
Net control station code	1	25	A 1-digit code indicating the status of the station. $0 = NCS$, $1 = out$ -station (not NCS).
Organization name	18	26-43	Name of the troop numbered unit to which the operator is assigned.
Vehicle code	3	95-55	A 3-character alphanumeric code assigned to the

TABLE XLVIII. EDITED DEPLOYMENT DATA FILE (10) (CONT)

Data Description	Field Size	Field Position	Remarks
Vehicle code (cont)			vehicle.
Radar pulse repetítion rate	4	47-50	Subfield 47-49: Pulses per second, right-justified with leading zeros. Subfield 50: Exponent N, used to multiply value in 47-49 by 10 to designate a high pulse rate whose value exceeds 999; N = 0, 1, 2, 3, 9.
Number of DF targeted	-	51	Count of DF targeted in a net by EWMOD [7] (maximum = 3). Appears only in DF equipment records; blank or zero otherwise.
Special targeting code	-	52	Code inserted by EWMOD [7] during analysis processing; field is blank prior to analysis processing. For X, 1 = jammer; for R, 4 = intercept receiver; 1, 2, 3, = DF.
Net name	28	53-80	Standard name assigned to this net type, left-justified.
System ID code	8	81-82	Code indicating type of system in which the equipment operates. TF = TACFIRE, TS = tactical operations system (TOS), MM = missile minder, etc.
COMSEC equipment code	7	83-84	Code indicating type of COMSEC device associated with the end item-component combination. Blank if unsecured.

File Descri	ption:	Deplo	yment	Data	File	with	Ide	ntifi	lers	34)_		
File Name:_	DEPLYF						Log	ical	Unit		5	
Mode/Type:_	BCD			_ R	ecord	Lengt	th:_	113	chara	cter	3	
Origin:	EQCLSF	F 22										
Used By:	LINK	23) ;	LAUX	25								

TABLE XLIX. DEPLOYMENT DATA FILE WITH IDENTIFIERS 34

Data Description	Field Size	Field Position	Remarks
Security classification	1	-	<pre>0 = unclassified, 1 = confidential, 2 = secret, 3 = top secret, 4 = FOUO, 5 = secret NOFORN, 6 = confidential NOFORN.</pre>
Net number	10	2-11	A unique 10-digit code assigned to each net. Digits 1-6 indicate the net type number and 7-10 indicate the troop number of the net control station (NCS).
Frequency	80	12-19	Assigned frequency in kHz, right-justified.
Area code	1	20	A 1-character alphabetic code assigned to designated deployment areas.
Frequency band code	7	21-22	A 2-digit code assigned to indicate defined frequency categories. This code is needed only if frequency category is one of the parameters selected to describe a cell for system effectiveness (SE) analysis.
Equipment class code	9	23–28	A 6-digit code assigned to indicate the equipment class. This code is usually one of the parameters selected to describe a cell for SE analysis. The 6-digit coding procedure is as follows:
			First digit - data set code: l = friendly corps C-E, 2 = friendly TACAIR C-E, 3 = theater army, 4 = friendly EW, 5 = opposing forces C-E, 6 = opposing forces EW, 7 = test system items,

TABLE XLIX. DEPLOYMENT DATA FILE WITH IDENTIFIERS (34) (CONT)

Remarks	8 = TACAIR EW (unintentional), 9 = intentional interference (friendly army or opposing forces EW), 0 = intentional interference (TACAIR EW).	Second digit - modulation code: 1 = F3 = 33, 2 = A3 = 13, 3 = A3A or A3J = 14, 4 = F1 = 31, 5 = F9 = 36, 6 = P0 = 50, 7 = P9 = 58, 8 = A2 or A9 = 18 or 12, 9 = A1 = 11, 0 = special or other.	Third digit - bandwidth: For modulation codes 1-5 and 8, 9, 0: 1 = narrow, 2 = medium, 3 = wide, 4 = very wide; for modulation codes 6 and 7: 5-9 and 0 indicate different "B" matrices.	Fourth and fifth digits - sequence number: 00-99 = final specific equipment designator within modulation code and bandwidth.	Sixth digit - siting preference: 1 = normal, 2 = normal, 3 = airborne radar, 4 = ground radar, 5 = preferred, 6 = airborne nonradar, 7 = radio relay (LOS), 8 = nap of the earth, 9 = troposcatter, 0 = satellite.	Latitude in ten-thousandths of a degree, right- justified.
Field Position						29–34
Field Size						9
Data Description	Equipment class code (cont)	·				Latitude

TABLE XLIX. DEPLOYMENT DATA FILE WITH IDENTIFIERS (34) (CONT)

Data Description	Field Size	Field Position	Remarks
Longitude	L	35-41	Longitude in ten-thousandths of a degree, right-justified.
Aircraft height	ν	42-46	Subfield 42-45: Height (in meters) of aircraft above ground. All zeros if aircraft is on ground; blank if not aircraft.
			Subfield 46: Exponent N, used to multiply aircraft height by 10^{N} ; N = 0, 1, 2, 3,
Antenna code	E	67-69	A 3-digit code assigned to each antenna type.
Antenna polarization	-	20	A 1-character alphabetic code to indicate polarization. H = horizontal, V = vertical, A = +45°, D = -45°, E = elliptical, C = circular, B = vertical/horizontal, or another alphabetic character to represent any other unique polarization.
Antenna azimuth angle	9	51-56	Subfield 51-53: Lower limit of scan.
			Subfleld 54-56: Upper limit of scan. Expressed in degrees clockwise from true north, not greater than 360°. For stationary antennas, both are equal; blank for omnidirectional antennas.
Antenna elevation angle	9	57-62	Subfield 57-59: Lower limit of scan.

TABLE XLIX. DEPLOYMENT DATA FILE WITH IDENTIFIERS (34) (CONT)

Data Description	Field Size	Field Position	Remarks
Antenna elevation angle (cont)			Subfield 60-62: Upper limit of scan. Expressed in degrees upward from horizontal $(0^{0}-90^{0})$ and $270^{0}-360^{0}$. Blank for omnidirectional antennas.
Antenna structural height	3	63-65	Height of antenna in tenths of a meter.
Power output	٧.	02-99	Power transmitted in dBm, right-justified. Blank for receivers.
R/T code	1	7.1	<pre>A 1-character alphabetic code: R = receiver, T = transceiver, X = transmitter.</pre>
Posture code	-	72	A 1-character alphabetic code indicating the combat posture of the unit to which the operator is assigned: N = normal, H = heavy, L = light, R = reserve, P = priority, K = nuclear, \$, T, and W = special assignments.
Operator name	14	73–86	Standard name assigned to the operator, left-justified.
Net control station (NCS) code	1	87	A 1-digit code indicating the status of the station: 0 = NCS, other = station is not NCS.
Modulation type code	2	88-89	A 2-digit code indicating modulation type: 33 = F3, 13 = A3, 14 = A3A or A3J, 31 = F1, 36 = F9, 50 = P0, 58 = P9, 18 = A2, 12 = A9, 11 = A1. Other codes for specific types may be used occasionally.

TABLE XLIX. DEPLOYMENT DATA FILE WITH IDENTIFIERS (34) (CONT)

Data Description	Field Size	Field Position	Remarks
Deployment serial number	4	66-06	A unique 4-digit identification number assigned within a net to each equipment in the deployment.
Net sequence number	m	96-76	A 3-digit sequence number of equipments in a net assigned by the deployment supplier. Not presently used.
Number of channels/crypto indicator	6	97-99	The number of channels assigned for this equipment component, if applicable. Values above 499 indicate encrypted equipment.
Radar pulse repetition rate	4	100-103	Subfield 100-102: Pulses per second. Subfield 103: Exponent N, used to multiply pulse rate by 10^N ; N = 0, 1, 2, 9.
Net type code	•	104-109	A 6-character alphanumeric code assigned to indicate the net type category. The characters indicate proponent (1), employment (2), echelon (3), category (4), and function (5). Character 6 specifies fine distinctions within the group described by the first 5 characters.
Number of DF targeted	П	110	Count of DF targeted in a net by EWMOD [7] (maximum = 3). Appears only in DF equipment records; otherwise, blank or zero.
Random targeted EW switch	-	111	Code indicating intentional EW components inserted randomly into deployment for special processing: 1-4 = random EW; otherwise, blank.

DEPLOYMENT DATA FILE WITH IDENTIFIERS (34) (CONT)	Remarks	Code indicates type of system in which the equipment operates: TF = TACFIRE, TS = tactical operations system (TOS), MM = missile minder, etc.
ENT DATA FII	Field Position	112-113
	Field Size	8
TABLE XLIX.	Data Description	System ID code

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TABLE L. EQCLSFF COMPUTER LISTING

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TABLE L. EQCLSFF COMPUTER LISTING (CONT)

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TABLE L. EQCLSFF COMPUTER LISTING (CONT)

PAGE

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TABLE L. EQCLSFF COMPUTER LISTING (CONT)

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TABLE L. EQCLSFF COMPUTER LISTING (CONT)

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		EOCLSFF	291
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TABLE L. EQCLSFF COMPUTER LISTING (CONT)

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		CAL	CALL PRIPG			10JAN74	*2	1,	
			WRITE(3,901)			4CNALO1	1,4	22	
		101 508	RNAT (6X++c	3	FDRNATION, or JUIPMENT EDG. 7K, ot G. C. L. C. L. L. C.	\$2NVC0T	727	73	
		=	17166-3			42NA LO1	174	*	
300		902 LA	ITe (3, 25) E	JANS (421TE (3, 25)E. LMM2 (40), EDNMI (40), MUDC (40), NDCHAN (40), IE 9 (40),	42NY COT	* 2 7	75	
		~	R FLLY (JO) , T FLLY (JO)	ILLY((07)	10JAN74	174	92	
		25 FO	KMAT (4X,A3	,2124	FORMATIGX,A3,2(24,A2),2X,A3,5X,1N4,R5,3X,3X,1X,1X,1X	FINEOCL	301	36	
		<u>.</u>	IPTC1 - IPTCf+1	-		EOCLSFF	FF	316	
		909 CONTINUE	TINGE			EOCLSFF	FF	319	
305		KE	KENIND 1			NINI W	0 ¥	•	
		RE.	REALING 5			PINIR	٥ ٢	_	
		=	IPTCT+IPICT+3	•		E OCL SFF	SFF	321	
		SI	SPCH . 333			EOCLSFF	FF	322	
		Z	CALL PATPG			EOCLSFF	FF	323	
310	J					COMENIS	15	365	
	J		PRINT UE	PLOYA	PRINT DEPLUYMENT SUMMARY MESSAGES AND TERMINATE JOB	COMENIS	115	366	
	J					COMENTS	2	367	
		7	11. (3,27)	176.	nrit. (3,27) iite. n. igi. 16 i. ingi. 10rpioi. Jurop. Nerr	FINEOCL	700	0,	
		27 104	RATIO1 E	ND OF	FURMATION END OF EDCLSFF PROCESSING FOR: 0,3410//1111,0 NETS.0,		SFF	325	
315		7 7	11.+ RECOM	US WR	2 Ills RECONDS WRITTEN FILLS RECONDS DROPPED FROM NETS WITHOUT	TR EOCLSFF	FF	326	
		SANS	SMITTERS+/	111.	3ANSMITTERS+/III.+ RECURDS URUPPED UN STATUS COUE+///	FINEOCI	č	7	
		Ξ ,	II. ERRUR	S ENC	III. * EARDRS ENCUNNIERED. *)	FINE OCI	ž	24	
		Ē	INERA.NC.O	SES	IFINERA.NC.O) STUP & ERRORS DETECTED BY EDCLSFF #	FINEOCI	ದ	43	
		EXD	•			EOCLSFF	. L	331	

(CONT)
LISTING
COMPUTER
EQCLSFF
ŗ.
TABLE

SUBRUCTINE PRIPE	t PHIP6		73/74 JPf=1	FIN 4.0+448	n	40/07/24. 15.40.02	15.40.05	PACE
-		SUBRUUTINE PATPS	AIPS ON/ISPCR, ICLASS	SUBBUUTINE PATPS CUPHUN FUCLCON ISPCR, ICLASS(2), IITLE(3), IPICT		PPTPG PRTPG	~ ~	
, n	u	UATA TPTP6/1/				9 2 2 4 4	ታ ነ ላ	
		IFLG.ISPCK IF (IPICI.E)	IFLG.ISPCK IF (IPICT.EU.O) 63 TO 220			P. R. P. G.	≎ ~ ≎	
•	26	ARTE(3,32)1 FORNATILLIPE	istrau Artreis 3271SPCR, fitte, iclass, ipipc Foxnafill, elselsf output fori e, sai	ARTREAD AND SPERFILLED ICLASSIPTEG ARTREAD AND AND AND AND AND AND AND AND AND A	•, [6]	P & R & R & R & R & R & R & R & R & R &	N M &	
	9	FURMAT(11, FEGELSFF UUT 1FIFFES-EJ, 999)METURN 1PFFE = 1PFPE + 1	DCLSFF LUTPUT FL 49)RETURN G + 1	OK: •,3410,27K,2410,27K,•PAGE		PKIPG PKIPG	112	
•	027	ISPCK - IPFCK - I Malfr(3,30)[SPCA: Return End	ISPCM - IPICI - 1 MAIR(3,30)[SPCA-TITLE.ICLASS,IPIPG RETURN END	SS, 1PTP6		2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1452	
						TX-	/1	

TABLE L. EQCLSFF COMPUTER LISTING (CONT)

	PROGRAM LISTMAN	L I S FMM	13/14	001-1			.	FIN 4.8	4.8.498	90/0	7/28.	80/07/28. 15.40.10	P A G
-		9	GRAM LIST	MAN LINFILE	PROGRAM LISTMANIANTILE, IMPUT, OUTPUT, TAPEL - IMPUT	PUL	PEL·INFILE	-			SINN	•	
1	J									Ξ	SINA	•	
	J		MUTBER	UF RECURDS	RECORDS TO PRINT	FROM E	PHINT FROM EACH FILE (DEFAULT-100	SEFAUL	1-1001	=	SINN	'n	
,	٠ ٠				DEFAULT-13					_	N I	•	
n	υ,		*			SEFURE		DEFAU	RECORDS TO SKIP BEFORE PRINTING (DEFAULTED)		N 12 12 12 12 12 12 12 12 12 12 12 12 12	~ 0	
	ں ر	2	· Cenera		EKS OF KEL	. מצם ה	24 14 10	30.	FAUL 1-1351	<u> </u>	2 Z Z Z Z	9	
	•		FI NOISMA	MI(135). IF	:N1172).1FR	12(63)				3	SINN	10	
		3	IVALENCE	IIFALCED.	EQUIVALENCE (IFMI(1), IFMI(1)), (IFMZ(1), IFMI(73))	FH2(1)	. IFMT (73))	_		=	SINA	11	
2		2	INTEGER RECORDEDAY	1401141	1					<u> </u>	SIXE	71	
		9	ATA LFAL/10H(AL)	HIALD	, 10H(A2)	•	, LOH(A3)	₹	OH(A4)	_	SINN	£ ;	
		- - (2	LOHIAS	, 10H(A6)		10H(A7)		OHIABI	3	NNIS	<u>.</u>	
		~ ^	2	LOHIAGE	POST		JOHIAIO ALD		OHIGATO, AZ)	3 :	22.5	<u> </u>	
4		٠,	2	LOHICALD. ASD	104(A10;A4)		LOHIATOR ASS		, 10H(A10, A6)		22.0	9 :	
2		• •		104(24)0-4/1		_	104(241014)		.10H(2A10)		N N N N N N N N N N N N N N N N N N N		
		•		04(2410.45)			10H(2A10.A7)		. 10H(2A10:A4)		NIN	2	
		~	2	Ort (2410, 44)			10H(3A10,A1)		OH (3 A 10 A A 2)	; ;	SINN	20	
			2	10H(3A10, A3)			. LOHE 3A10, A51		. 10H(3A10, A6)		SINN	21	
23		•	2	OH(3410, A7)			, 10H(3A10, A91		, 10H(4A10)		SINA	22	
		∢	2	U.1(4410+41)			, 10H(4410, A3)		, 10H(4A10, A4)		STRN	23	
		•	9	OM(4410 . A5)			, 104(4410,A7)		, 10H (\$410, A8)	-	S IX	54	
		U	21	10.464104491		•	. 10H(5A10, A1)		. 10H(5A10. A2)]	228	52	
;		٠.	0.	OH(>A10, A3)		, A41	, 10M(5410.45)		, 10H(5A10, A6)	-	Z Z Z	92	
52			2	OHISAIU, A71			10HIDAIU.AGI		, low (BA10)] :	Z Z Z Z	7	
		•	⊃ :	CHICALO.ALD			JOHIBA101A59		CATONION OF STREET] ;	N I I	9.7	
		3 2	7	0410410455	. 104(0410) A01		. 10H(0A100A7)		10M(0410)461	: :	NE S	200	
		. 0	1642/	TOHICALOSA 33			10H(7A10.A5)		. 10H(7A10.A61		NNIS	: E	
20		-		1014(7410-47)			. 10H(7A10,A9)		, 10H(8A10)	::	STR	32	
,		~	2	JA(8410, A1)	13:113A10,A21		, 10H(dA 10, A 3)		, 10416410, A41	=	SINA	33	
		m	01	JHI JAIO. AD 1			, 10H18A10, A7)	171 .1	, 10H(8A10, A8)		SINK	36	
		+	2	UM (8410. 49)	. 10H(JA10)	•	, 10H(9A10,A1)	7 (1	, 10H(9A10, A2)	_:	NIN	35	
;		Δ.	2	1119A10.A3)	TACHOI		10H(9A10,A	191	OH (9410 - 461] :	N I N	9 ;	
5		٥ ٢	2	TA COLOCIA	TAVIDAL .	0.421	401461H01		OH(VA Ox Ox Ox Ox Ox Ox Ox Ox Ox O	3 -		- e	
		- 3	7 .	24.04.04.04	1401710141	0.461			104	; -	77.7	9 6	
		9		74 101 401 1H	1044104101401401401401401				CA 401 A1 10 HO	: =	STRN	, 0	
		•	2 7	H(LIALUPA)	19 10 HOT 18	0.44)	10H(11A10	451,1	UNITATION A 33 - 10-4(1) A 10 - 40 - 10-4(1) A 10 - 45 - 5 - 10 - 40 - 40 - 40 - 40 - 40 - 40 - 40	=	STRN	7	
6		•	21	4111410.A1	DISTILATO, A 7), 10-1(11A10, A61, 10-1(11A10, A91, 10H(12A10)	0.441.	104411140	14141	OH (12410)	7	STNN	42	
		u	01	H112A10.A1	1) . 10H(12A)	0 A 2 1 P	10H(12A10	A31.1	0H112a10, A1), 10H112a10, A2), 10H112a10, A3), 10H112A10, A4)	=	STRE	£ 3	
		٥	2	HI 12A10. A2	11.10H(12A1	0 . A6 3 .	10H(12410	A73.1	UHI 12A1U, A>1, 10HI 12A1U, A61, 10HI 12A10, A71, 10HI 12A10, A91,	= :	STRE	.	
		.	9:	H(IZAIO-A	IOH(IZALU-AF), IOH(IBALU)	6	10H(13A10,	1	.10H(13A10,A1),10H(13A10,A2)	: :	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Ç	
94		. 6	HOI 001 00	M(13A106A3	14611001411		101451)W01	A21/] =		2 4	
}		2000	TATE DOT DO	• .						=	N N N		
		1 4 X	10.146	. MF ILES . IS	SECURT 1SEC	URZANS	TRILEM			: :	STRN	•	
		10 FUR	101111W	5, 2X, 2A10,	FURMAT(110,15,2x,2410,215)					Ξ	STAN	90	
			NF 1LL S.LL	IF (NF 11, 5. Lt. O) NF ILES . 1	-					ij	SINN	2	
2		=	NWEC.LE.O	IF INKEC. LE. OINTEC=100						_	STAN	3	
		-	IFTENIT LE OINSTRI	OUNSTRI-1		,					STRE	m ,	
			LEN.LL.0.	UK.LEN.61	. 1 55 JLEN* 1 57	ב						5 2	
			DESTRUCTION	51 = [17] 16 16 17 17 17 17 17 17	H. FOTOT					5 =			
55		15 FUR	FURMAT(0-0,110,315)	10,315)							SIRN	5.0	
			LEN-(LEN-11/10+1	1001						Ξ	SINN	28	
		17	IPAGE-0							Ë	STAN	20	

TABLE L. EQCLSFF COMPUTER LISTING (CONT)

	PRJGRAM LISTHNN	13/74 UPf=1	FIN 4.8+456	80/07/28. 15.40.10	01.00.00	
	¥.	KIF 11.6 = 1		LISTAN	09	
2	2 81			LISTAN	. 29	
2	_	NEC1		11JUN90	-	
	ž			LISTNA	63	
	3¥ 07	REAUCL, JF) (RECORDIJ), J-1, LEN)		LISINA	•	
		1F(E0F(11)60.40		E I S L X	65	
65	NK O+	1-2X-XX		LISTNA	99	
	=	IF (NN. 3T. 0) 50 TO 20		LISIN	67	
	91	18EC-14EC+1		OBNOCT	~	
	5	IF (MUD([Atc, 200).61.1)60 fo 20		11JUN90	~	
	<u> </u>	1F4LINE.LI.57)60 TJ 46		LISTAN	89	
20		IF LIPAGE . WE . O ! PRINT 42, KIFILE, I SECURI, I SECURE	A I	LISINN	3	
	42 F0	FORMATIO-FILE NUMBER 4, [5,444,2410)		LISTAN	10	
		IPAGE . IPAGE + 1		LISINA	7	
	4	PRINT 44, KIFILE, ISECURI, ISECURZ, IPAGE		LISTAN	12	
	14 FO	FORMATTOLFILE NUNBER 4,15,44x,2a10,43x,4PAGE 4,15//)	+,15//)	LISTAN	73	
2	7			N I S I W	*	
	11 04	LINE-LINE+1		LISTAN	72	
	ž	PRINT 50, KECURD		LISTAN	92	
	30 FG	FORMATIKALBALDAASI		LISTAN	11	
	-			E I STRE	æ ~	
Ç		IFIN. 61.036010 20		LISTRN	2	
)	52 Rc	R. AD(1.30) R.CORU(1)		LISTAN	90	
		FORMAFIALDS		LISTAN	91	
		IF(EUF(1))63.35		LISTAN	2 0	
	99	PRINT 42,4 FFILE, ISECURI, ISECUR2		LISINA	63	
65	Ĭ	NFILES *NFILES -1		LISTNA	3.6	
;		1F (NF1LES.LE.0)6010 70		LISTAN	8 5	
	×	KIFILE - KIFILE + 1		LISTNN	96	
	=	IPAGE - O		LISTNA	47	
	j	LINE-57		LISTAR	g G	
ç	3	60 f0 ls		LISTAN	69	
	30 CC	CONTINUE		N I S I N	o ?	
		0		LISTNN	16	